WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
NEVADA

UNITED STATES DEPARTMENT of AGRICULTURE···SOIL CONSERVATION SERVICE,
and
NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES
DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF
MAR. 1, 1962

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Cooperative Snow Survey and Water Supply Forecast Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS			
Colorado and State of Utah	Monthly (Jan.-June)	Salt Lake City, Utah	Utah State Engineer and Other Agencies
Columbia	Monthly (Jan.-May)	Boise, Idaho	Idaho State Reclamation Engineer
Upper Missouri and State of Montana	Monthly (Feb.-June)	Bozeman, Montana	Mont. Agr. Exp. Station
West-Wide	Oct. 1, Apr. 1, May 1	Portland, Oregon	All Cooperators
STATES			
Alaska	Monthly (Mar.-May)	Palmer, Alaska	Alaska S.C.D.
Arizona	Semi-Monthly (Jan.15 - Apr.1)	Phoenix, Arizona	Salt R. Valley Water Users Assoc. Ariz. Agr. Exp. Station
Colorado and New Mexico	Monthly (Feb.-May)	Fort Collins, Colorado	Colo. Agr. Exp. Station Colo. State Engineer N. Mex. State Engineer
Idaho	Monthly (Feb.-May)	Boise, Idaho	Idaho State Reclamation Engineer
Nevada	Monthly (Jan.-May)	Reno, Nevada	Nevada Dept. of Conservation and Natural Resources Division of Water Resources
Oregon	Monthly (Jan.-June)	Portland, Oregon	Ore. Agr. Exp. Station Oregon State Engineer
Washington	Monthly (Feb.-June)	Spokane, Washington	Wn. State Dept. of Conservation
Wyoming	Monthly (Feb.-June)	Casper, Wyoming	Wyoming State Engineer

Copies of these various reports may be secured from:

Head, Water Supply Forecasting Section
Soil Conservation Service
P.O. Box 4170, Portland 8, Oregon

PUBLISHED BY OTHER AGENCIES

REPORTS	ISSUED	AGENCY
British Columbia	Monthly (Feb.-June)	Comptroller, Water Rights Br., Dept. of Lands and Forests, Parliament Bldg., Victoria, B.C., Canada
California	Monthly (Feb.-May)	Calif. Dept. of Water Resources, Sacramento, Calif.

USDA-SCS-PORTLAND, OREG. 1961

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NEVADA

Report prepared by

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SOIL CONSERVATION SERVICE
1479 WELLS AVENUE.....RENO, NEVADA

MARCH 8, 1962

Issued by

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USDA-SCS-PORTLAND, OREG. 1961

TABLE OF CONTENTS

USDA-SCS-PORTLAND, OREG. 1961

ALPHABETICAL INDEX TO NEVADA SNOW COURSES

This alphabetical tabulation of snow courses has been prepared to provide readers with rapid access to basic snow survey data. The reader is referred to the "Index to Nevada Snow Courses by basins" and "Nevada Snow Courses" map on the next page for other detailed information such as location, elevation, basin and sub-basin, state and numbering system legend.

SNOW COURSE	NO.	PLATE
Baker #1	14L1	8
Baker #2	14L2	8
Baker #3	14L3	8
Balo Mountain	19H1	15
Barber Creek	20H5	15
Bear Creek	19H1MA	11,12
Berry Creek	19K2	8
Big Bend	15H4M	11,12
Big Creek Campground	17K1	13
Big Creek Mine	17K2	13
Big Creek, Upper	17K3	13
Bird Creek	14K1	8
Blue Lakes	19L5	3,4
Boca #2	20K14	2,4
Buckeye Forks	19L11	5
Buckeye Roughs	19L10	5
Buckskin, Lower	17H2	12,14
Buckskin, Upper	17H1	12,14
Campito Mountain	1BM2	6
Carson Pass, Upper	19L4	3,4
Cave Creek	15J13	8,9,12
Cedar Pass	20H6	15
Center Mountain	19L12A	5
Clark Canyon	15N2	7
Clear Creek	19K5	3,4
Corral Canyon	15J12	9,12
Daggetts Pass	19L14	2,3,4
Denio Creek	18G6a	14
Disaster Peak	18H1	14
Dismal Swamp	20H3a	15
Donner Lake #1	20K11	2
Donner Park #2	20K21	2,
Donner Summit	20K10	2,4
Dorsey Basin	15J1	9,12
Dry Creek	15J3	9,12
Eagle Peak	20H7	15
Echo Summit	20L5	2,3,4
Foroyce Lake	20K7	2,4
49-Mtn.	19H3	15
Fox Creek	15H2	11,12
Freel Bench	19L2	2
Fry Canyon	15H7	11,12
Furnace Flat	20KB	2,4
Glenbrook #2	19K6	2,3
Goat Creek	15H13	10,12
Golconoa #2	17J2	12
Golo Creek	15H5	11,12
Granite Peak	17H4	12,14
Green Mountain	15J9	9,12
Hagans Meadow	19L3	2,4
Hager Canyon	15J14	8,9,12
Harrison Pass #1	15J10	9,12
Harrison Pass #2	15J11	9,12
Hays Canyon	19H2	15
Hole-in-Mtn.	15J15	9,12
Hummingbird Springs	15H15A	10,12
Inoepenoence Camp	20K4	2,4
Independence Creek	20K3	2
Inoepenoence Lake	20K5	2
Jack Creek, Lower	16H1M	11,12
Jack Creek, Upper	16H2	11,12
Jacks Peak	16H4	11,12
Jakes Creek	14H1	10,13
Kalamazoo Creek	14KB	B
Kyle Canyon	15N5	7

SNOW COURSE	NO.	PLATE
Lake Lucille	20L4	2
Lamance Creek	17H5	12,14
Lamoille #1	15J4	9,12
Lamoille #2	15J5	9,12
Lamoille #3	15J6	9,12
Lamoille #4	15J7	9,12
Lamoille #5	15J8	9,12
Lapon Meadow	18L1	5
Laurel Draw	16H5	11,12
Leavitt Meadows	19L8	5
Lee Canyon #1	15N4	7
Lee Canyon #2	15N3	7
Leonard Creek	18H2	14
Little Bally Mtn.	19H4a	15
Little Valley	19K3	2
Louse Canyon	17G4a	14
Lower Corral	17L1	7,13
Marlette Lake	19K4	2,3
Martin Creek	17H3	12,14
Mathew Canyon	14M1	7
Midas	16H3	11,12
Montgomery Pass	1BM1	6
Mt. Grant	1BL2	5
Mt. Rose	19K2	2
Murray Summit	14K3	B
Oregon Canyon	17G5a	14
Pine Canyon	14M2	7
Poison Flat	19L6A	3,4
Pole Creek R. S.	15H14	10,12
Quinn Rioge	17H6a	14
Rainbow Canyon #2	15N7	7
Red Point	15H1Ba	10,12
Reservation Creek	20H4	15
Richardsons #2	20L3	2
Robinson Summit	15K1	B
Rodeo Flat	15H6M	11,12
Rubicon #1	20L1	2
Rubicon #2	20L2	2
Ryan Ranch	15J2	9,12
Sage Hen Creek	20K6	2,4
76 Creek	15H3A	11,12
Silver Creek #2	14K7	8
Sonora Pass	19L7	3,5
Squaw Valley #2	20K19	2
Tahoe City	20K16	2,4
Taylor Canyon	15H9M	11,12
Tioga Pass	19M1	5
Tremewan Ranch	15HB	11,12
Trough Springs	15N1	7
Trout Creek	1BG5a	14
Trout Creek, Lower	15H10	9,12
Trout Creek, Upper	15H11	9,12
Truckee #2	20K13	2
Upper Corral	17L2	7,13
Upper Fish Valley	19L16a	3
Upper Truckee	19L1	2
Virginia Lakes	19L13	5
Waro Creek	20K17	2,4
Waro Mountain #2	14K5	B
Webber Lake	20K2	2
Webber Peak	20K1	2
White River #1	15L1	B
Willow Flat	19L9	5

INDEX TO NEVADA SNOW COURSES
(By Basins)

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
SNAKE RIVER BASIN					
SNAKE RIVER					
15H1MA	8EAR CREEK	31	46N	58E	7800
15G4M*	8IG 8ENO	30	45N	56E	6700
15H2	FOX CREEK	33	46N	58E	6800
15H13	GOAT CREEK	31	46N	60E	8800
15H5*	GOLO CREEK	31	45N	56E	6600
15H15A	HUMMINGBIRO SPRINGS	6	45N	60E	8945
14H1	JAKES CREEK	6	42N	62E	7000
15H14	POLE CREEK RANGER STATION	13	46N	59E	8330
15H18a	REO POINT	15	47N	61E	7940
15H3A	76 CREEK	6	44N	58E	7100
OWYHEE RIVER					
15H4M	8IG 8END	30	45N	56E	6700
17H2*	8UCKSKIN, LOWER	25	45N	39E	6700
17H1*	8UCKSKIN, UPPER	11	45N	39E	7200
15H7*	FRY CANYON	31	43N	54E	6700
15H5	GOLO CREEK	31	45N	56E	6600
17H4*	GRANITE PEAK	22	44N	39E	7800
16H1M	JACK CREEK, LOWER	18	42N	53E	6800
16H2	JACK CREEK, UPPER	9	42N	53E	7250
16H4	JACKS PEAK	28	42N	53E	8420
16H5	LAUREL ORAW	20	45N	53E	6700
17G4a	LOUSE CANYON (OREG.)	27	40S	44E	6440
17H3*	MARTIN CREEK	18	44N	40E	6700
15H6M*	RODEO FLAT	36	43N	53E	6800
15H9M	TAYLOR CANYON	35	39N	53E	6200
15H8*	TREMEWAN RANCH	9	39N	55E	5700
INTERIOR					
UPPER HUM8OLOT RIVER					
15H1MA*	8EAR CREEK	31	46N	58E	7800
15H4M*	8IG 8ENO	30	45N	56E	6700
15J12	CORRAL CANYON	27	28N	57E	8500
15J1	OORSEY 8ASIN	28	35N	60E	8100
15J3	ORY CREEK	5	34N	60E	6500
15H2*	FOX CREEK	33	46N	58E	6800
15h7	FRY CANYON	31	43N	54E	6700
15H5*	GOLD CREEK	31	45N	56E	6600
15J9	GREEN MOUNTAIN	23	29N	57E	8000
15J10	HARRISON PASS #1	9	28N	57E	6600
15J11	HARRISON PASS #2	16	28N	57E	7400
16H1M*	JACK CREEK, LOWER	18	42N	53E	6800
16H2*	JACK CREEK, UPPER	9	42N	53E	7250
16H4*	JACKS PEAK	28	42N	53E	8420
15J4	LAMOILLE #1	15	32N	58E	7100
15J5	LAMOILLE #2	14	32N	58E	7300
15J6	LAMOILLE #3	24	32N	58E	7700
15J7	LAMOILLE #4	19	32N	59E	8000
15J8	LAMOILLE #5	31	32N	59E	8700
15H6M	RODEO FLAT	36	43N	53E	6800
15J2	RYAN RANCH	1	34N	59E	5800
15H3A*	76 CREEK	6	44N	58E	7100
15H9M*	TAYLOR CANYON	35	39N	53E	6200
15H8	TREMEWAN RANCH	9	39N	55E	5700
15H10	TROUT CREEK, LOWER	28	37N	61E	6900
15H11	TROUT CREEK, UPPER	4	36N	61E	8500
LOWER HUM8OLOT RIVER					
17K1	8IG CREEK CAMP GROUND	10	17N	43E	6600
17K2	8IG CREEK MINE	23	17N	43E	7600
17K3	8IG CREEK, UPPER	26	17N	43E	8000
17H2	8UCKSKIN, LOWER	25	45N	39E	6700
17H1	8UCKSKIN, UPPER	11	45N	39E	7200
17J2	GOLCONOA #2	22	35N	39E	6000
17H4	GRANITE PEAK	22	44N	39E	7800
17H5	LAMANCE CREEK	13	42N	38E	6000
17L1	LOWER CORRAL	12	11N	40E	7500
17H3	MARTIN CREEK	18	44N	40E	6700
16H3	MIDAS	18	39N	46E	7200
17L2	UPPER CORRAL	20	11N	41E	8500
EASTERN NEVAOA					
14L1	8AKER #1	29	13N	69E	7950
14L2	8AKER #2	30	13N	69E	8950
14L3	8AKER #3	25	13N	68E	9250
14K2	8ERRY CREEK	26	17N	65E	9100
14K1	8IRO CREEK	34	19N	65E	7500
15J13	CAVE CREEK	25	27N	57E	7500
15J14	HAGER CANYON	34	27N	57E	8000
15J15	HOLE-IN-MTN.	6	35N	61E	7900
14K8	KALAMAZOO CREEK	34	20N	65E	7400
14K3	MURRAY SUMMIT	25	16N	62E	7250
15K1	ROBINSON SUMMIT	34	18N	61E	7600
14K7	SILVER CREEK #2	30	16N	69E	8000
14K5	WARO MOUNTAIN #2	25	15N	62E	7875
15L1*	WHITE RIVER #1	31	13N	59E	7400
CENTRAL GREAT 8ASIN					
18M2	CAMPITO MTN	19	5S	35E	10200
15N2	CLARK CANYON	8	19S	56E	9000
18G6a*	OENIO CREEK (OREG.)	14	41S	34E	6000
18M1	MONTGOMERY PASS	4	1N	33E	7100
15N1	TROUGH SPRINGS	23	18S	55E	8500

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
NORTHERN GREAT 8ASIN					
19H1	8ALO MOUNTAIN	17	45N	21E	6720
20H5	8ARBER CREEK	23	39N	16E	6500
20H6	CEOAR PASS	12	43N	14E	7100
18H1	DISASTER PEAK	8	47N	34E	6500
20H3a	OISMAL SWAMP (CAL.)	31	48N	22E	7000
20H7	EAGLE PEAK	35	40N	15E	8300
19H3	49-MTN	7	42N	19E	6000
19H2	HAYS CANYON	1	39N	18E	6400
18H2	LEONARO CREEK	13	42N	28E	5900
19H4a	LITTLE 8ALLY MTN	8	45N	19E	6000
17G5a	OREGON CANYON (OREG.)	9	40S	40E	7240
17H6a	QUINN RIOGE	9	47N	41E	6300
20H4	RESERVATION CREEK	12	46N	15E	5900
18G5a*	TROUT CREEK (OREG.)	10	41S	38E	7800
LAKE TAHOE					
19L14	OAGGETTS PASS	19	13N	19E	7350
20L5	ECHO SUMMIT (CAL.)	6	11N	18E	7500
19L2	FREEL 8ENCH (CAL.)	36	12N	18E	7300
19K6	GLENBROOK #2	13	14N	18E	6900
19L3	HAGANS MEAOOW (CAL.)	36	12N	18E	8000
20L4	LAKE LUCILLE (CAL.)	28	12N	17E	8400
19K4	MARLETTE LAKE	13	15N	18E	8000
19K2*	MT. ROSE	7	17N	19E	9000
20L3	RICHAROSONS #2 (CAL.)	6	12N	18E	6500
20L1	RUBICON #1 (CAL.)	6	13N	17E	8100
20L2	RUBICON #2 (CAL.)	6	13N	17E	7500
20K16	TAHOE CITY (CAL.)	6	15N	17E	6250
19L1	UPPER TRUCKEE (CAL.)	21	12N	18E	6400
20K17	WARO CREEK (CAL.)	21	15N	16E	7000
TRUCKEE RIVER					
20K14	80CA #2 (CAL.)	28	18N	17E	5900
20K11	OONNER LAKE #1 (CAL.)	14	17N	15E	5950
20K21	OONNER PARK #2 (CAL.)	3	16N	16E	6000
20K10*	OONNER SUMMIT (CAL.)	25	17N	14E	6900
20K7*	FOROYCE LAKE (CAL.)	34	18N	13E	6500
20K8*	FURNACE FLAT (CAL.)	10	17N	13E	6600
20K4	INOEPENOENCE CAMP (CAL.)	34	19N	15E	7000
20K3	INDEPENDENCE CREEK (CAL.)	14	19N	15E	6500
20K5	INDEPENOENCE LAKE (CAL.)	9	18N	15E	8450
19K3	LITTLE VALLEY	17	16N	19E	6300
19K2	MT. ROSE	7	17N	19E	9000
20K6	SAGE HEN CREEK (CAL.)	7	18N	16E	6500
20K19	SOUAW VALLEY #2 (CAL.)	6	15N	16E	7500
20K16*	TAHOE CITY (CAL.)	6	15N	17E	6250
20K13	TRUCKEE #2 (CAL.)	22	17N	16E	6400
20K17*	WARO CREEK (CAL.)	21	15N	16E	7000
20K2	WEBBER LAKE (CAL.)	20	19N	14E	7000
20K1*	WEBBER PEAK (CAL.)	30	19N	14E	8000
CARSON RIVER					
19L5	BLUE LAKES (CAL.)	30	9N	19E	8000
19L4	CARSON PASS, UPPER (CAL.)	22	10N	18E	8600
19K5	CLEAR CREEK	6	14N	19E	7300
19L6A	POISON FLAT (CAL.)	25	8N	21E	7900
19L16a	UPPER FISH VALLEY (CAL.)	18	7N	22E	8050
WALKER RIVER					
19L11	8UCKEYE FORKS (CAL.)	20	4N	23E	8500
19L10	8UCKEYE ROUGHS (CAL.)	15	4N	23E	7900
19L12A	CENTER MOUNTAIN (CAL.)	4	3N	23E	9400
18L1	LAPON MEAOOW	36	8N	28E	9000
19L8	LEAVITT MEAOOWS (CAL.)	4	5N	22E	7200
18L2	MT. GRANT	23	8N	28E	9000
19L7	SONORA PASS (CAL.)	1	5N	21E	8800
19M1*	TIOGA PASS (CAL.)	30	1N	25E	9900
19L13	VIRGINA LAKES (CAL.)	5	2N	25E	9500
19L9	WILLOW FLAT (CAL.)	21	5N	23E	8250
COLORADO					
LOWER COLORAOO RIVER					
15N5	KYLE CANYON	26	19S	56E	8200
15N4	LEE CANYON #1	10	19S	56E	8300
15N3	LEE CANYON #2	9	19S	56E	9000
14M1	MATHEW CANYON	11	5S	70E	6000
14M2	PINE CANYON	11	6S	69E	6200
15N7	RAINBOW CANYON #2	6	20S	57E	8100
15L1	WHITE RIVER #1	31	13N	59E	7400

LEGEND

NUMBERING SYSTEM (EXAMPLE)

19K4	SNOW COURSE ONLY
19K4M	SNOW COURSE AND SOIL MOISTURE
19K4MA	SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
19K4A	SNOW COURSE AND AERIAL MARKER
19K4a	AERIAL MARKER ONLY

* LOCATED ON ADJACENT WATERSHED

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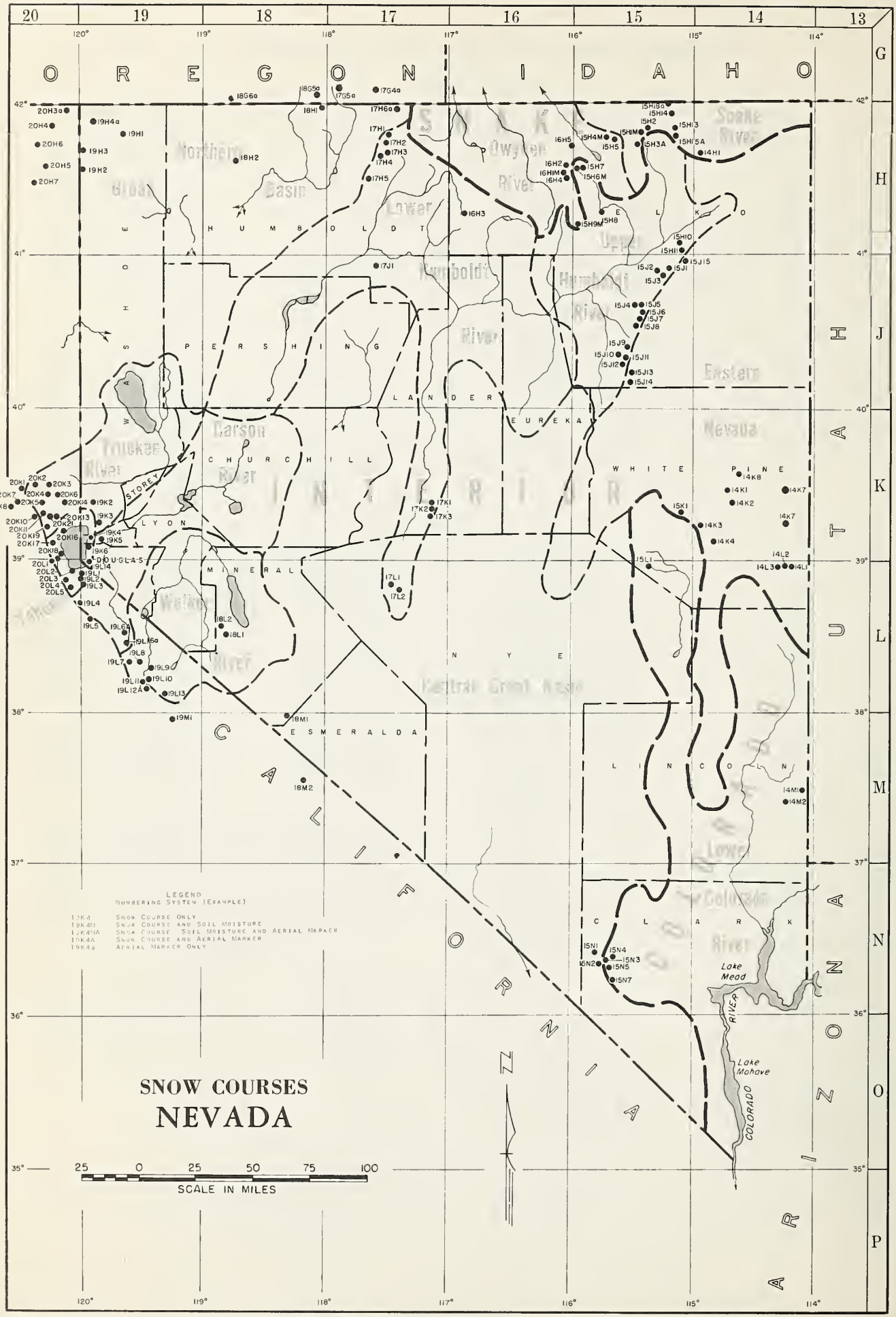


U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE

7-0-14858-L

WATER SUPPLY OUTLOOK
FOR NEVADA

March 1, 1962

February, 1962 will long be recalled by Nevada's drought weary ranchers and farmers as a month of most unusual weather. Results of March 1 snow surveys in Nevada indicate that February storms have brought the sub-normal mountain snowpack of February 1 up to and in excess of the March 1 average. As a result of this near unprecedented snowpack buildup during February, normal to near normal runoff is forecast for most streams this coming April-July irrigation season. Allotments from reservoirs will not be normal this year due to their still depleted condition. However, preliminary March 1 allotments being set by Irrigation District Boards around the State are much better than last year. These allotments, coupled with the expected April-July streamflow, should provide a fair to good irrigation season water supply.

STREAMFLOW FORECASTS

Irrigation season (April-July) water supply forecasts by basins, assuming normal climatic conditions in March and during the spring are: Tahoe-Truckee 115-125 percent of the 1943-57 average; Carson River 92-94 percent; Walker River 101-107 percent; Humboldt at Palisade 75 percent; Upper Humboldt 93-95 percent; Martin Creek 110 percent and Owyhee 70-74 percent.

RESERVOIR STORAGE

Nevada's depleted reservoirs recorded sizeable storage gains during February. Lake Tahoe rose from an elevation of 6,222.67 on February 1 (minus 40,000 acre feet) to 6,223.50 (plus 62,000 acre feet) on March 1. Lahontan gained 40,000 acre feet, Topaz 9,000 acre feet, Bridgeport 6,000 acre feet, Rye Patch 9,000 acre feet, Boca 2,000 acre feet and Wild Horse 9,000 acre feet. In aggregate, these seven reservoirs gained 137,000 acre feet. This increase brought total reservoir storage up from 73,000 acre feet on February 1 to 210,000 acre feet on March 1. It should be noted that the March 1 total storage value is still far short of the March 1 average of 864,000 acre feet and total usable capacity of 1,372,000 acre feet. Water users served from these reservoirs will not receive full allotments. However, the allotments will be much better than those of last year.

SOIL MOISTURE CONDITIONS

Soil moisture conditions are much improved over that of a month ago and are rated fair to good. Soils below the snow line are well wetted. Soils under the mountain snowpack will require a moderate amount of snowmelt water to become fully primed. Likewise, ground water conditions have shown considerable improvement during the past month. Above normal February streamflow, particularly in the Humboldt Basin, has restored, to a large extent, the soil moisture condition of many acres of river meadow lands. River channel bank storage deficiencies have been reduced by the unseasonal February streamflow.

Conditions for spring range forage growth are rated as good. Summer range forage growth will depend, to a large extent, on April and May precipitation.

SNOW COVER

February snowpack water content increases at many snow courses in the State were greater than any previous February increase on record. February 1962 increases, two to four times the February average, were observed, particularly in the Sierra.

In the Tahoe basin, water content of key courses increased from a February 1 average of 35 percent of normal to 87 percent of normal. This is a February increase of 52 percent where normally the increase is only 20 percent. This is more than two times the February average.

The Carson River Basin water content increased in February from 37 percent to 95 percent, which is more than double the average of 25 percent.

Walker River Basin water content jumped from 46 percent to 113 percent of average, or four times the average increase.

In the Humboldt River Basin, snow water increases were from 65 percent to 98 percent, or about double the usual February increase.

NEVADA STREAMFLOW FORECASTS - MARCH 1, 1962

The following summarized runoff forecasts are based principally on mountain snow cover and the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

	April-July, Streamflow Thousands Acre Feet				
		15-Yr.	1962 as	Measured	
	Forecast	Av.	% of	Runoff	
Forecast Stream	1962	1943-57	15-Yr.Av.	1961	1960
Owyhee River nr. Gold Creek,Nev.[1]	20	27	74	2	14
Owyhee River nr. Owyhee, Nev.[1]	60	86	70	17	43
Lamoille Creek nr. Lamoille, Nev.	26	28	93	17	19
So. Fk. Humboldt nr. Elko, Nev.	70	74	95	39	28
Humboldt River at Palisade, Nev.	170	225	75	51	63
Martin Creek nr. Paradise, Nev.	20	17	118	6	10
East Walker nr. Bridgeport, Cal.[2]	65	61	107	15	18
West Walker below E. Fk. nr. Coleville, Cal.	150	148	101	72	82
East Carson nr. Gardnerville, Nev.	175	189	93	87	91
West Carson at Woodfords, Cal.	50	54	93	22	28
Carson River nr. Carson City	170	184	92	46	50
Carson River at Ft. Churchill	160	171	94	27	30
Little Truckee River above Boca, California[5]	108	86*	125	27	41
Truckee River at Farad, Cal.[3, 5]	320	255	125	105	147
Lake Tahoe [4, 5]	1.72	1.50	115	0.67	0.54
Salmon Falls Creek nr. San Jacinto, Nevada	77**	88	88	26	64
	75***	85	88	24	62

1. Corrected for storage in Wild Horse Reservoir.
2. For period April through August corrected for storage in Bridgeport Reservoir.
3. Exclusive of Tahoe and corrected for storage in Boca Reservoir.
4. Maximum rise, in feet, from April 1, assuming gates closed.
5. Forecast issued by Truckee Basin Water Committee which is composed of Truckee-Carson Irrigation District, Sierra Pacific Power Company and Washoe County Water Conservation District.

* Subject to change due to questionable streamflow data.
** Forecast period of March-September.
*** Forecast period of March-July.

| | | |

NEVADA

STATUS OF RESERVOIR STORAGE

MARCH 1, 1962

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (1000 AF)	USABLE STORAGE - 1000 ACRE FEET			
			1962	1961	1960	MARCH 1 15-YR. AVE. 1943-57
Owyhee	Wild Horse	33	18	14	10	13
Lower Humboldt	Rye Patch	179	15	9	26	103
Colorado	Mohave	1,810	1,750	1,702	1,728	1,467*
Colorado	Mead	27,217	18,249	18,755	19,124	16,929
Tahoe	Tahoe	732	62	105	291	465
Truckee	Boca	41	3	10	5	6
Carson	Lahontan	286	75	92	127	215
West Walker	Topaz	59	19	13	16	42
East Walker	Bridgeport	42	18	11	19	33

* Storage began in 1950

TOTAL RESERVOIR STORAGE

Developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz and Bridgeport Reservoirs in 1000's Acre Feet

MONTH	1958-59	1959-60	1960-61	1961-62	AVERAGE 1943-57
October 1	985	489	263	65	720
January 1	890	367	206	57	775
February 1	947	398	218	73	830
March 1	1,038	494	254	210	864
April 1	1,066	592	285		906
May 1	1,036	632	300		945

TOTAL USABLE CAPACITY 1,372

SNOW WATER ACCUMULATION
in NEVADA by BASIN

MARCH 1, 1962

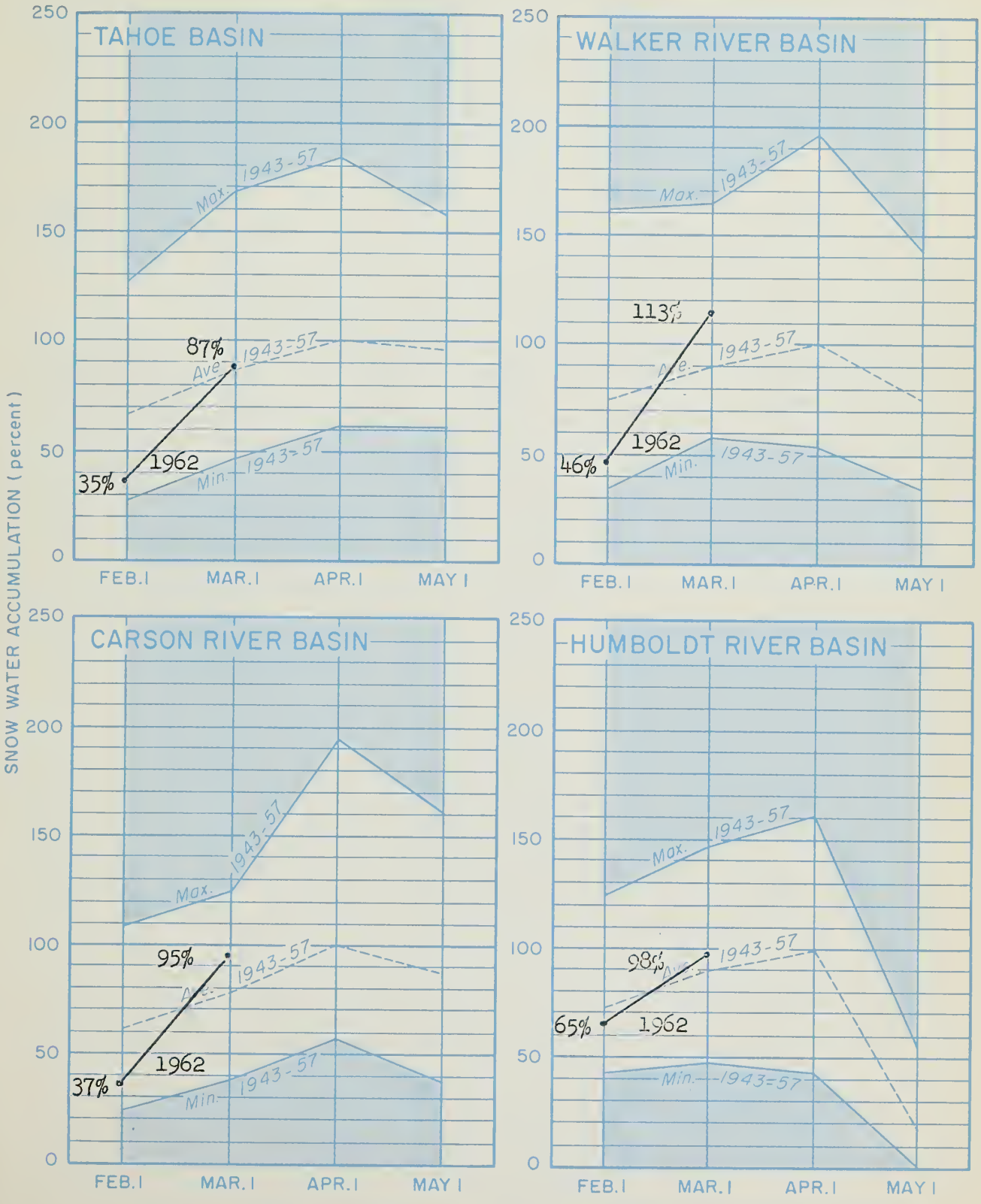
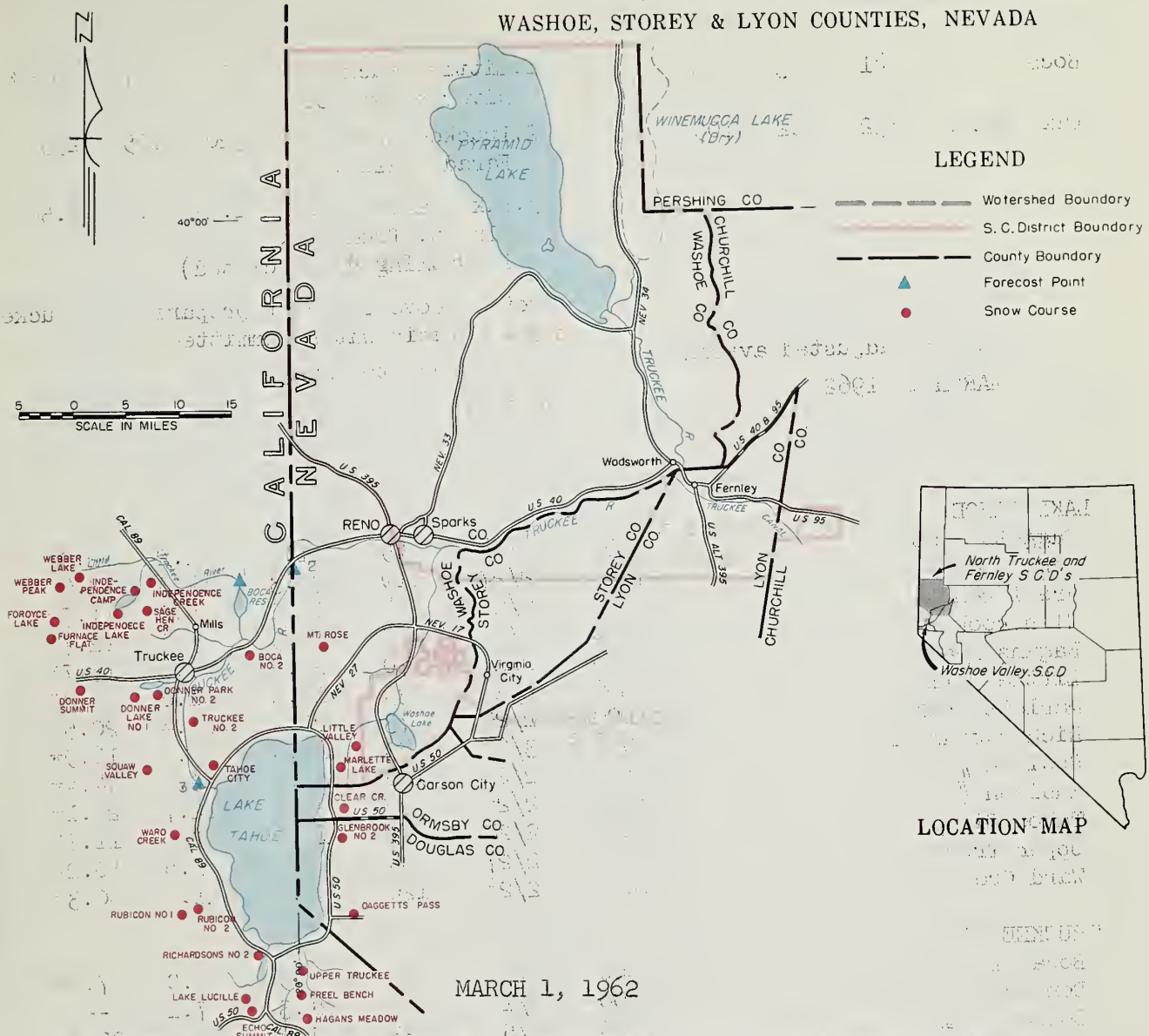


Plate 1

U S DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE ... PORTLAND ... M-2443

SNOW SURVEY & WATER SUPPLY FORECAST

NORTH TRUCKEE, FERNLEY & WASHOE VALLEY S.C.D's.
WASHOE, STOREY & LYON COUNTIES, NEVADA



MARCH 1, 1962

Water users served from Tahoe-Truckee streams will have a near normal to normal irrigation season water supply in 1962. The present mountain snowpack ranges from 85-130 percent of the March 1 average. The water content of snow at the lower elevation snow courses as percent of March 1 average is higher than the percents at the high elevation snow courses. February precipitation was about 3 times normal. Many snow courses received more water in February 1962 than any previous February in their past record.

The Truckee Basin Water Committee forecasts that Lake Tahoe will rise 1.72 feet from April 1 through the runoff period. The March 1 elevation of Lake Tahoe was 6223.50. With normal March inflow plus 1.72 feet from April 1, the Lake would rise to 6225.50 maximum elevation if gates were kept closed.

The Committee forecast April-July flow of Truckee at Farad at 320,000 acre feet and Little Truckee above Boca at 108,000. This is above the respective April-July averages. The Committee feels that the February snow water increases have changed the outlook to where it appears that Floriston rates can be maintained through most of the irrigation season. Fall and winter flows may still be reduced as storage in Lake Tahoe may be low again in the latter part of the water year.

Plate 2

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND OREG 1958 M-1798-1

7-0-16079-1-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE
Boca	41	3	10	6
Lake Tahoe	732	62	105	465

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.
* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE
1.Little Truckee River above Boca	103	27	86**
2.Truckee River at Farad, Calif.	320	105	255
3.Lake Tahoe rise (In ft. from Apr. 1 assuming gates closed)	1.72	0.67	1.50

Note: Above forecast prepared by Truckee Basin Water Committee

** Subject to change

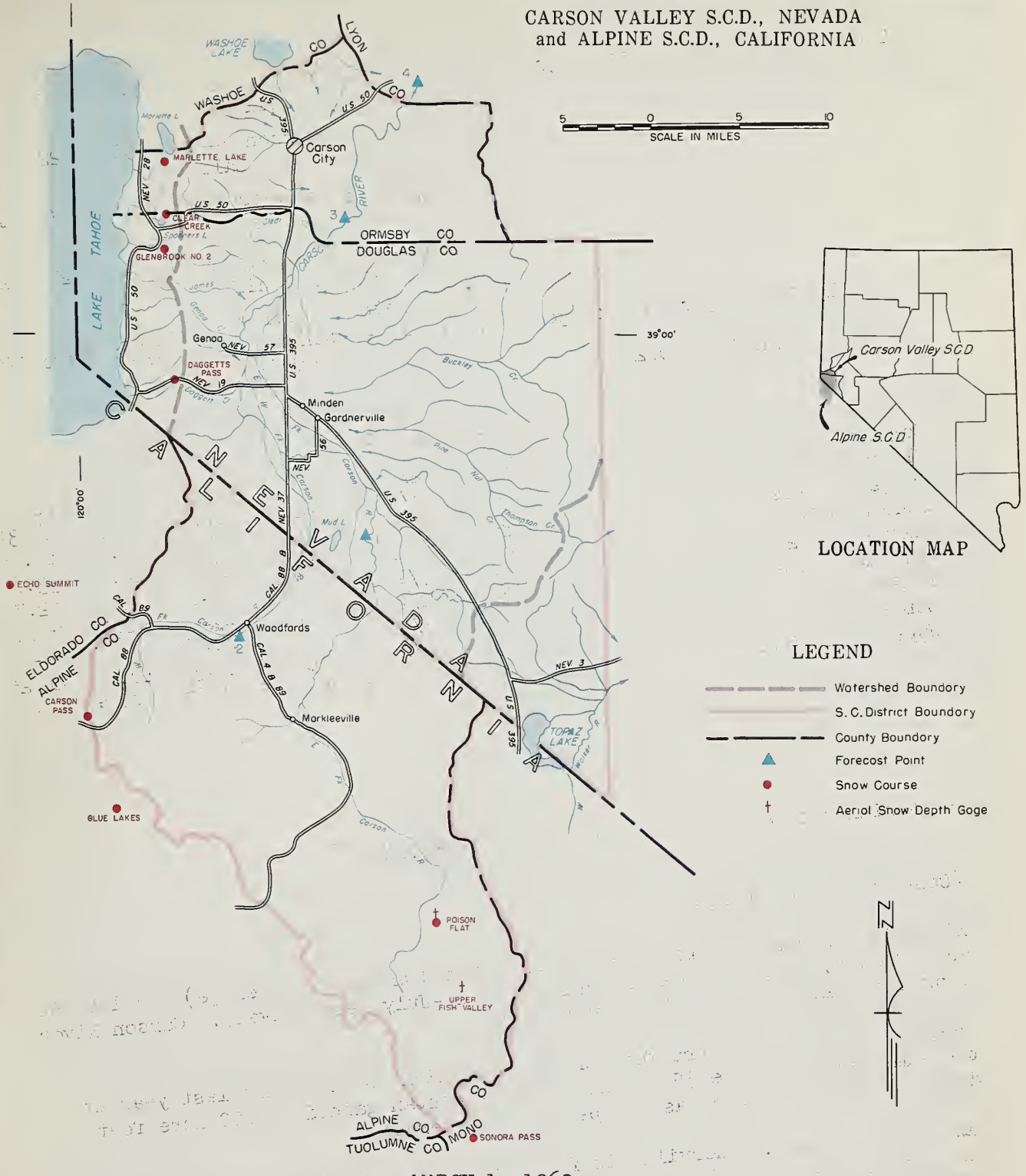
SNOW

MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD WATER CONTENT (Inches) LAST YEAR	AVERAGE
LAKE TAHOE						
Daggetts Pass	7350	2/26	45	11.8	2.2	12.0*
Echo Summit	7500	2/27	119	35.3	14.3	33.6
Freel Bench	7300	2/27	54	16.2	5.0	11.7*
Glenbrook #2	6900	3/1	47	14.5	5.7	12.7*
Hagans Meadow	8000	2/27	70	20.3	7.6	17.7*
Little Valley	6300	2/28	39	11.3	1.6	15.8*
Marlette Lake	8000	2/26	73	20.8	11.4	20.5*
Richardsons #2	6500	3/6	83	25.8	7.4	16.9*
Rubicon #1	8100	2/25	148	42.9	22.4	44.4*
Rubicon #2	7500	2/25	99	30.4	12.7	25.1*
Tahoe City	6250	2/28	45	16.4	T	11.7*
Upper Truckee	6400	2/27	44	13.6	2.8	10.2*
Ward Creek	7000	2/28	120	39.8	21.6	40.3*
TRUCKEE RIVER						
Boca #2	5900	3/1	27	7.9	0.0	7.8*
Donner Park #2	6000	2/28	66	21.3	7.2	--
Donner Summit	6900	3/5	123	41.4	15.8	33.8
Fordyce Lake	6500	2/28	115	40.2	19.2	33.8*
Furnace Flat	6600	2/28	129	41.6	21.4	40.0*
Independence Camp	7000	3/1	82	23.4	9.5	21.0*
Independence Creek	6500	3/1	56	17.4	5.0	13.2*
Independence Lake	8450	3/5	125	39.2	18.8	31.2*
Sage Hen Creek	6500	3/5	78	23.8	7.2	19.3*
Squaw Valley #2	7500	3/5	163	61.0	21.8	--
Truckee #2	6400	3/1	64	19.7	6.1	16.7*

SNOW SURVEY & WATER SUPPLY FORECAST

CARSON VALLEY S.C.D., NEVADA
and ALPINE S.C.D., CALIFORNIA



MARCH 1, 1962

Carson Valley water users can expect a near normal to normal irrigation season water supply. March 1 mountain snowpack is 110 percent of average and is 95 percent of the April 1 average.

The East Carson near Gardnerville is forecast to flow 175,000 acre feet during April-July which is 93 percent of average. During the same period the West Carson at Woodfords is expected to flow 50,000 acre feet or 93 percent of average. Downstream at Carson City and Ft. Churchill the Carson

(Over)

Plate 3

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND, OREG. 1958 M-1798-B

7-0-16079-8-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE
Lahontan	286	75	92	215

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.
*1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE
1. East Carson nr. Gardnerville	175	87	189
2. West Carson at Woodfords, Calif.	50	22	54
3. Carson River nr. Carson City	170	46	184
4. Carson River at Ft. Churchill	160	27	171
Date 200 c.f.s. flow E. Carson nr. Gardnerville	7/17	6/28	7/22

SNOW

MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD WATER CONTENT (Inches) LAST YEAR	AVERAGE
Carson Pass	8600	2/26	108	33.7	14.0	28.2
Clear Creek	7300	3/5	61	17.8	5.5	14.3*
Daggetts Pass	7350	2/26	45	11.8	2.2	12.0*
Echo Summit	7500	2/27	119	35.3	14.3	33.6
Glenbrook #2	6900	3/1	47	14.5	5.7	12.7*
Marlette Lake	8000	2/26	73	20.8	11.4	20.5
Poison Flat	7900	3/7	74	22.2[a]	9.0[a]	--
Sonora Pass	8800	2/23	85	25.3	10.8	21.2*
Upper Fish Valley	8050	3/7	60	18.0[a]	7.0[a]	--

a Aerial snow depth gage; water content estimated.

(Continued from front)

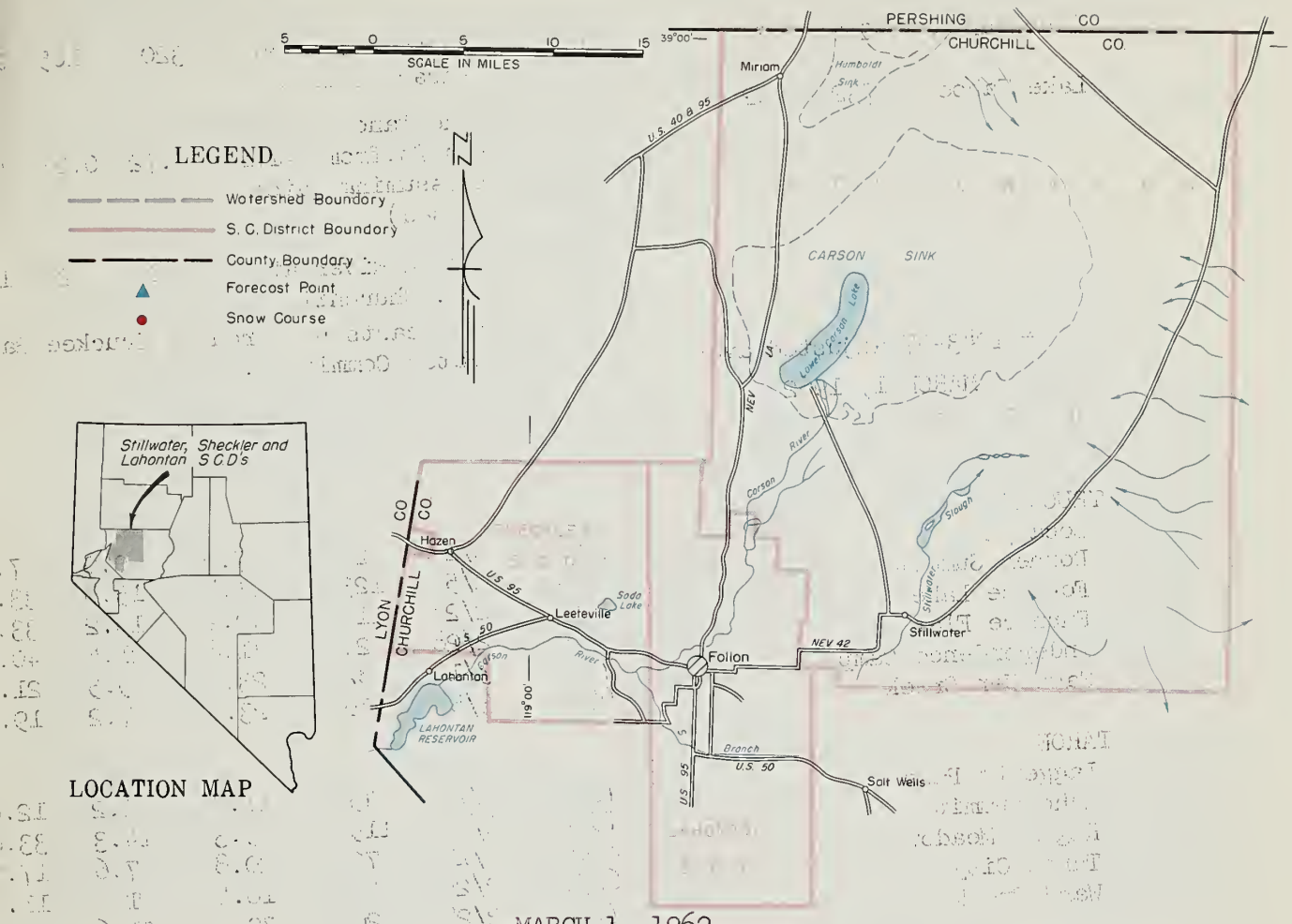
River is forecast to flow 170,000 acre feet (92 percent average) and 160,000 acre feet (94 percent average) during April-July respectively. Carson River flow into Lahontan should be near normal.

Lahontan held 75,000 acre feet on March 1 which is less than last year at the same date. Of the 75,000 acre feet Lahontan gained 40,000 acre feet during February, which was 200 percent of average.

East Carson near Gardnerville is forecast to drop to 200 c.f.s. on July 17. The average date is July 22. Last year the river dropped to 200 c.f.s. on June 28.

SNOW SURVEY & WATER SUPPLY FORECAST

STILLWATER, SHECKLER, LAHONTAN S.C.D's. & VICINITY
CHURCHILL COUNTY, NEVADA



MARCH 1, 1962

Water users in the Fallon area will have a much better irrigation water supply than that of last year. The March 1, 1962 snowpack in the Tahoe-Truckee-Carson River mountain watersheds is above normal. Snow courses at the median elevations have March 1 water contents 125-135 percent of their March 1 average. The higher snow courses are closer to average.

Lahontan storage as of March 1 was 75,000 acre feet. It increased 40,000 acre feet during February from Truckee River diverted flow and Carson River flow. Storage is still only 35 percent of the March 1 average of 215,000 acre feet.

Carson River at Ft. Churchill is forecast to flow 160,000 acre feet or 94 percent of the 15-year average during April-July 1962. April-July flow of Truckee River at Farad is forecast at 320,000 acre feet which is 125 percent of the 1943-57 average. Lake Tahoe held 62,000 acre feet on March 1 at elevation 6223.50. During the month of February, Lake Tahoe gained almost one foot in water level elevation.

Preliminary estimates by Truckee Carson Irrigation District officials indicated that about a 70 percent allotment of water may be possible this irrigation season. It should be noted that this allotment is provisional. On April 1 it will be possible to set firmer allotment values.

Plate 4

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND, OREG. 1958 M-1798-11

7-0-16079-11-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE
Lahontan	286	75	92	215
Lake Tahoe	732	62	105	465

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE
Truckee River at Farad, Calif.**	320	105	255
Lake Tahoe rise** (In ft. from April 1 assuming gates closed)	1.72	0.67	1.50
Carson River at Ft. Churchill	160	27	171

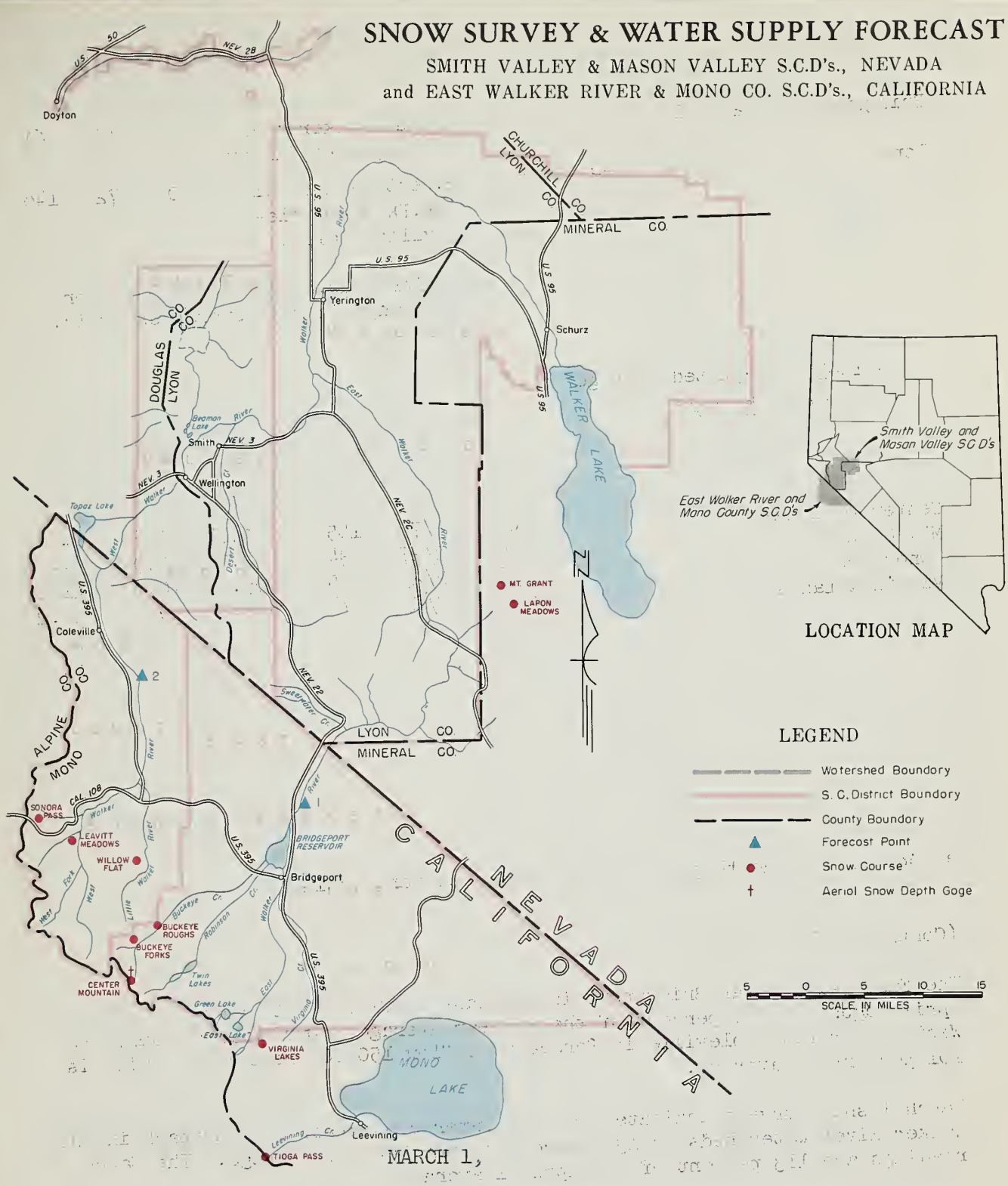
**Forecasts prepared by Truckee Basin Water Committee.

SNOW MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD WATER CONTENT (Inches) LAST YEAR	AVERAGE
TRUCKEE						
Boca #2	5900	3/1	27	7.9	0.0	7.8*
Donner Summit	6900	3/5	123	41.4	15.8	33.8
Fordyce Lake	6500	2/28	115	40.2	19.2	33.8*
Furnace Flat	6600	2/28	129	41.6	21.4	40.0*
Independence Camp	7000	3/1	82	23.4	9.5	21.0*
Sage Hen Creek	6500	3/5	78	23.8	7.2	19.3*
TAHOE						
Daggetts Pass	7350	2/26	45	11.8	2.2	12.0*
Echo Summit	7500	2/27	119	35.3	14.3	33.6
Hagans Meadow	8100	2/27	70	20.8	7.6	17.7*
Tahoe City	6250	2/28	45	16.4	T	11.7*
Ward Creek	7000	2/28	120	39.8	21.6	40.3*
CARSON RIVER						
Carson Pass	8600	2/26	108	33.7	14.0	28.2
Clear Creek	7300	3/5	61	17.8	5.5	14.3*

SNOW SURVEY & WATER SUPPLY FORECAST

SMITH VALLEY & MASON VALLEY S.C.D's., NEVADA
and EAST WALKER RIVER & MONO CO. S.C.D's., CALIFORNIA



MARCH 1,

Smith and Mason Valley water users will have a near normal to normal irrigation season water supply in 1962. Water users obtaining some of their water from Topaz and Bridgeport Reservoirs will probably not receive full allotments of stored water. This is because on March 1, 1962 Topaz and Bridgeport held only about 50 percent of their average March 1 storage.

Storage in Topaz and Bridgeport increased in an above average fashion during February. Topaz held 19,000 acre feet on March 1 which represents an increase of 9,000 acre feet during February. Bridgeport held 18,000 acre feet on March 1, a gain of 6,000 acre feet in February.

(Over)

Plate 5

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND OREG. 1958 M-1798-10

7-0-16079-10-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE
Bridgeport	42	18	11	33
Topaz	59	19	13	42

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE
1. East Walker near Bridgeport, Cal.**	65	15	61
2. West Walker below E.Fk. nr. Coleville, Calif.	150	72	148

** Apr.-Aug. runoff corrected for change in Bridgeport Reservoir.

SNOW MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD WATER CONTENT (Inches) LAST YEAR	AVERAGE
Center Mountain	9400	3/7	145	43.8[a]	16.6[a]	--
Mt. Grant	9000	2/27	34	8.6	4.9	--
Sonora Pass	8800	2/23	85	25.3	10.8	21.2*
Virginia Lakes	9500	2/23	74	22.2	9.4	16.2*

a Aerial snow depth gage reading; water content estimated.

(Continued from front)

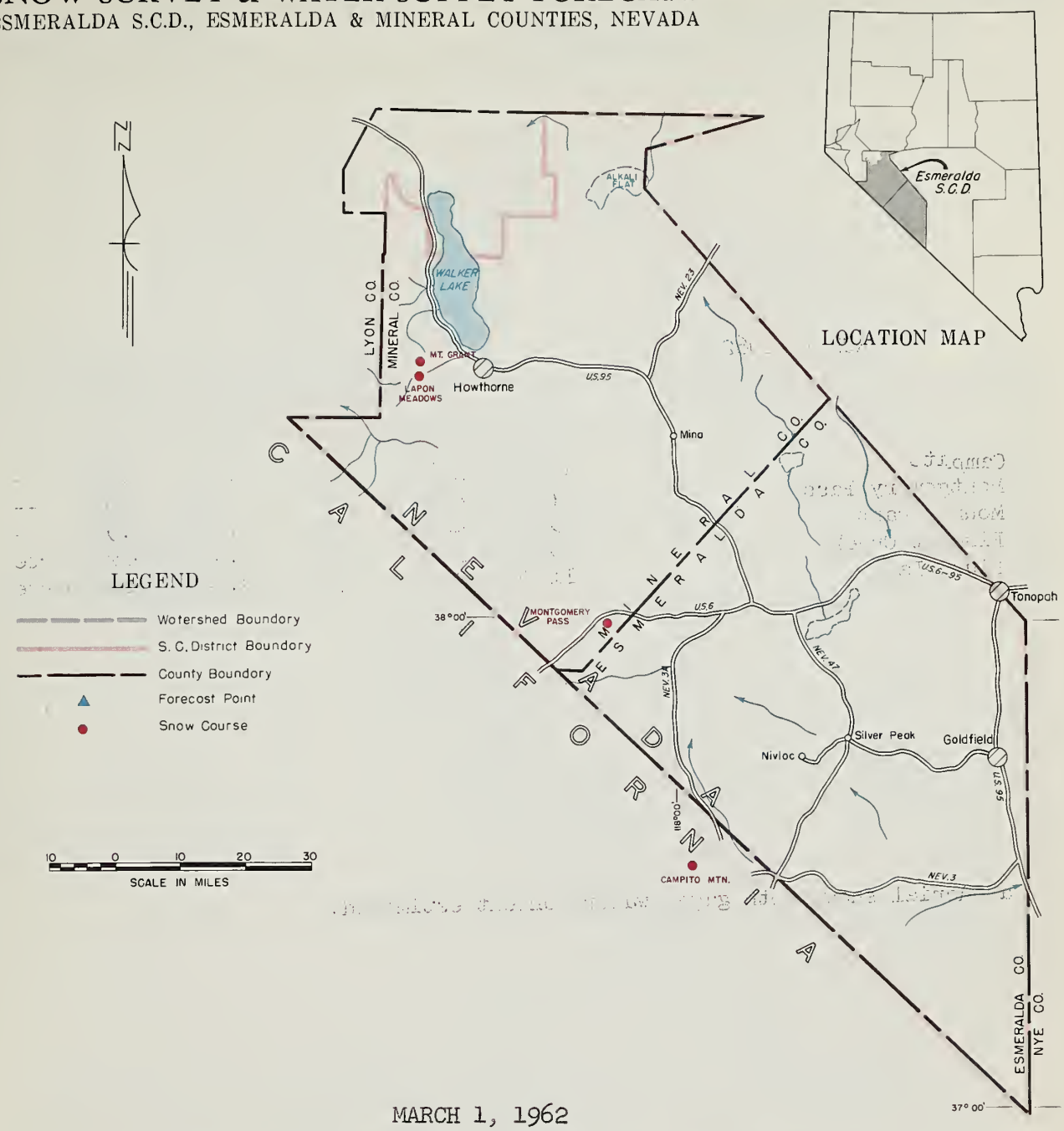
The East Walker near Bridgeport is forecast to flow 65,000 acre feet during April-August or 107 percent of the 15 year average. During April-July the West Walker near Coleville is forecast to flow 150,000 acre feet, which is 101 percent of average.

March 1 snow surveys indicate that the water content of the snowpack in the Walker River watersheds is 130 percent of the March 1 average. The March 1 readings are 113 percent of the April 1 average.

Mountain soils at elevations above 8500 feet are still not fully wetted and will absorb some of the snowmelt water this spring.

SNOW SURVEY & WATER SUPPLY FORECAST

ESMERALDA S.C.D., ESMERALDA & MINERAL COUNTIES, NEVADA



MARCH 1, 1962

Snowpack in the White Mountains is good this year and is assumed to be normal to above normal for this time of year. This is based on precipitation in surrounding watersheds being above normal.

Campito Mountain and Montgomery Pass snow courses had a marked increase above the February 1, 1962 measurements. Two new aerial markers Pinchot Creek and Piute Pass also showed a good increase over the February 1 measurements.

Good runoff is anticipated in this area. Ground water recharge for Fish Lake Valley will be good to excellent this year.

Plate 6

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND OREG 1961 M-1798-13

7-0-16079-13-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE

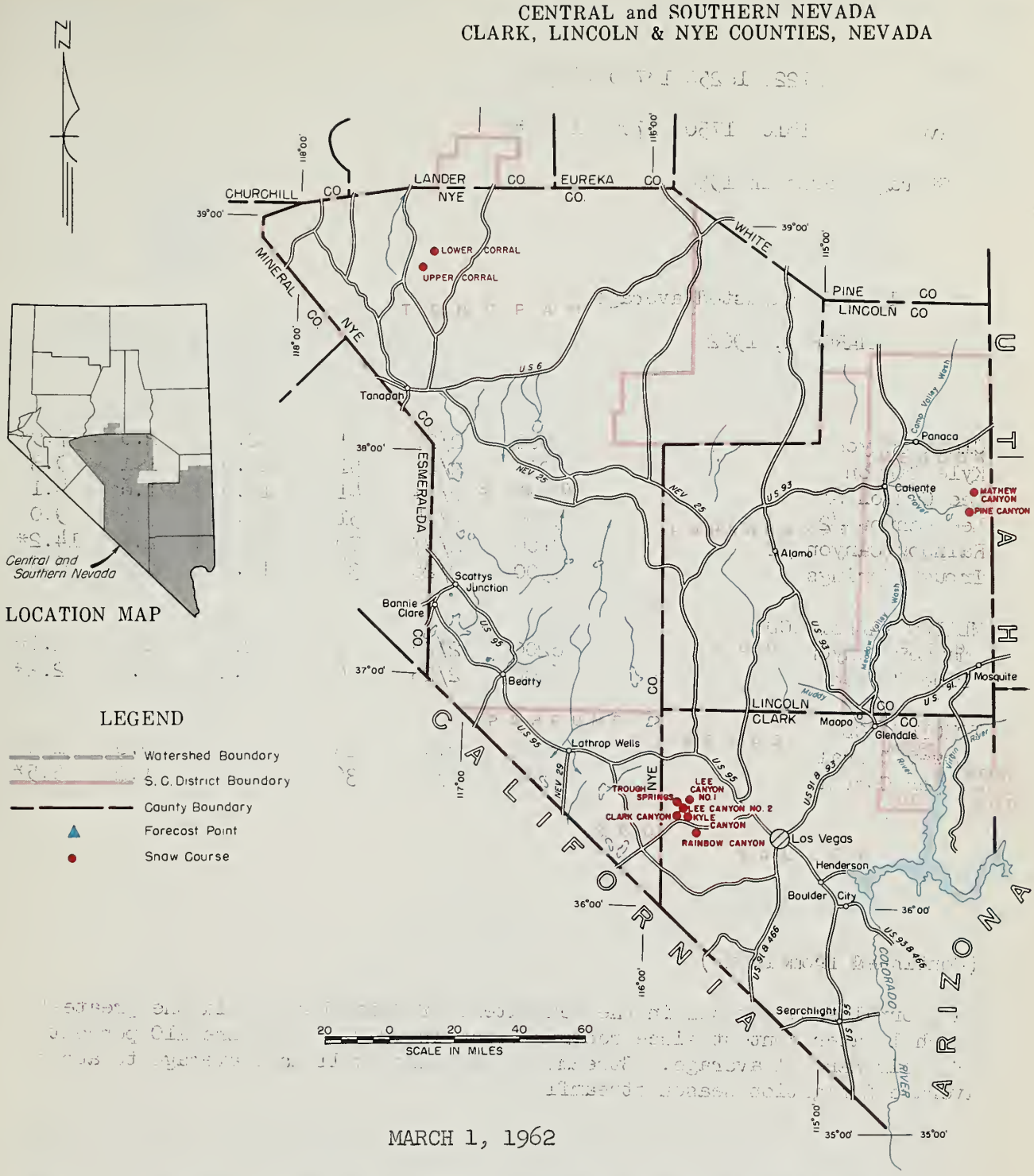
SNOW MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD WATER CONTENT (Inches) LAST YEAR	AVERAGE
Campito	10200	3/1	30	9.5	5.2	--
Montgomery Pass	7100	2/27	12	3.9	0.0	--
Mount Grant	9000	2/27	34	8.6	4.9	--
Pinchot Creek	9300	3/7	14	4.5a	New	course
Piute Pass	11700	3/7	74	23.6a	New	course

a Aerial snow depth gage; water content estimated.

SNOW SURVEY & WATER SUPPLY FORECAST

CENTRAL and SOUTHERN NEVADA
CLARK, LINCOLN & NYE COUNTIES, NEVADA



Central and Southern Nevada

LOCATION MAP

LEGEND

- Watershed Boundary
- S. C. District Boundary
- County Boundary
- ▲ Forecast Point
- ● Snow Course

MARCH 1, 1962

March 1, 1962 snow cover in the Spring Mountains near Las Vegas is 173 percent of the March 1 average. This is in marked contrast to last year when a record low March 1 snowpack was measured. In fact, March 1, 1962 snow cover is 165 percent of the April 1 average. Ground water recharge from the Spring Mountains will be excellent.

Pine and Mathew snow courses in Meadow Valley Wash decreased in water content during February. Some minor flooding occurred in this area in early February. However the March 1 snowpack remains at 100 percent of average.

(Over)

Plate 7

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA-SCS PORTLAND, OREG. 1962 M-1798-14

7-0-16079-14-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE
Mead	27220	18250	18760	16930
Mohave	1810	1750	1700	1480**

** Storage began in 1950

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE

SNOW MARCH 1, 1962

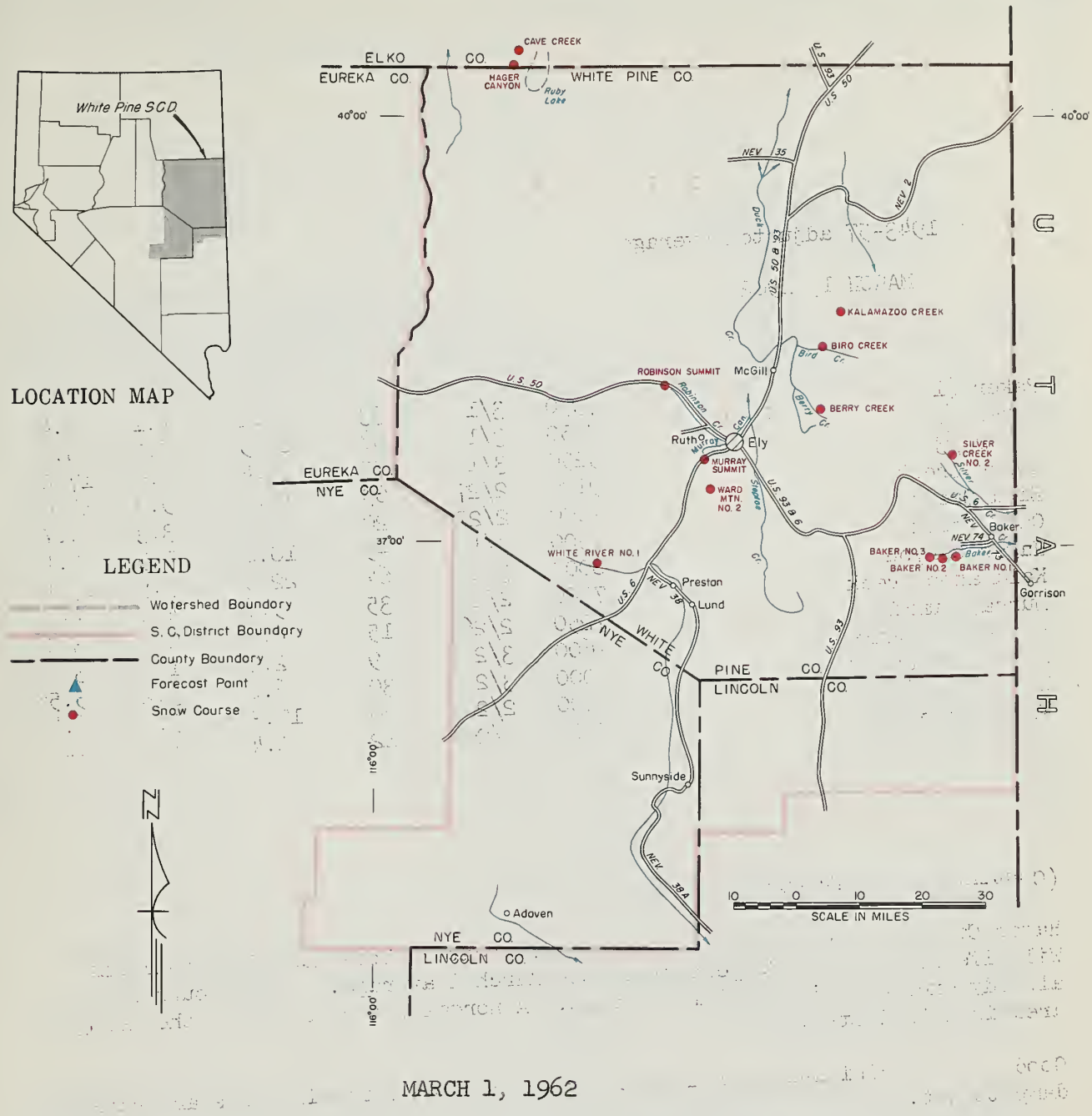
SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD WATER CONTENT (Inches) LAST YEAR	AVERAGE
Clark Canyon	9000	2/28	41	12.6	2.8	7.9*
Kyle Canyon	8200	2/27	51	18.0	1.1	9.3
Lee Canyon #1	8300	2/24	41	14.9	1.6	8.1
Lee Canyon #2	9000	2/24	51	16.0	3.6	9.0
Rainbow Canyon #2	8100	2/27	70	23.2	2.6	14.2*
Trough Springs	8500	2/28	34	10.6	2.0	6.6*
MEADOW VALLEY SCD						
Mathew Canyon	6200	2/24	7	2.3	0.0	2.1*
Pine Canyon	6000	2/25	6	2.1	0.0	2.2*
TONOPAH SCD						
Lower Corral	7500	3/4	14	4.0	0.0	1.8*
Upper Corral	8500	3/4	36	11.3	1.2	5.5*

(Continued from front)

The Corral snow courses in the headwaters of Reese River hold the greatest March 1 water content since records began in 1942. They are 210 percent of their March 1 average. Streams in this area will have average to above average irrigation season streamflow.

SNOW SURVEY & WATER SUPPLY FORECAST

WHITE PINE S.C.D., WHITE PINE, LINCOLN & NYE COUNTIES, NEVADA



MARCH 1, 1962

White Pine Soil Conservation District water users can expect a water supply much better than the last two years. Snake Range snow courses hold above normal March 1 water content. The three Baker snow courses and Silver Creek average from 144 to 109 percent of the March 1, 1943-57 average and the Baker snow courses already equal their April 1 average. Snow courses in the Schell Range are above average with Bird Creek at 102 percent of average and Berry Creek at 125 percent of the March 1, 1943-57 average. Spring and summer streamflow from the Schell Range will be good assuming spring precipitation is normal.

Ward Mountain and Murray Summit are average for this time of year.

(Over)

Plate 8

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA-SCS PORTLAND OREG. 1959 M-1798-9

7-0-16079-9-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.
* 1943-57 adjusted averages

SNOW

MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE
Baker #1	7950	3/1	33	9.2	2.1	6.4
Baker #2	8950	3/1	68	20.9	7.5	15.6
Baker #3	9250	3/1	75	23.4	8.6	17.0*
Berry Creek	9100	2/27	63	18.3	9.3	14.6*
Bird Creek	7500	2/27	20	4.8	3.3	4.7*
Cave Creek	7500	3/1	49	18.6	7.5	13.1*
Hager Canyon	8000	3/1	64	22.9	9.5	17.1*
Kalamazoo Creek	7400	2/28	35	9.6	4.9	--
Murray Summit	7250	2/26	15	4.0	T	3.9
Robinson Summit	7600	3/2	9	2.5	T	3.6*
Silver Creek #2	8000	3/2	30	6.0	3.2	5.5*
Ward Mtn. #2	8900	2/26	66	17.3	5.3	16.4*
White River #1	7400	2/26	12	3.4	T	--

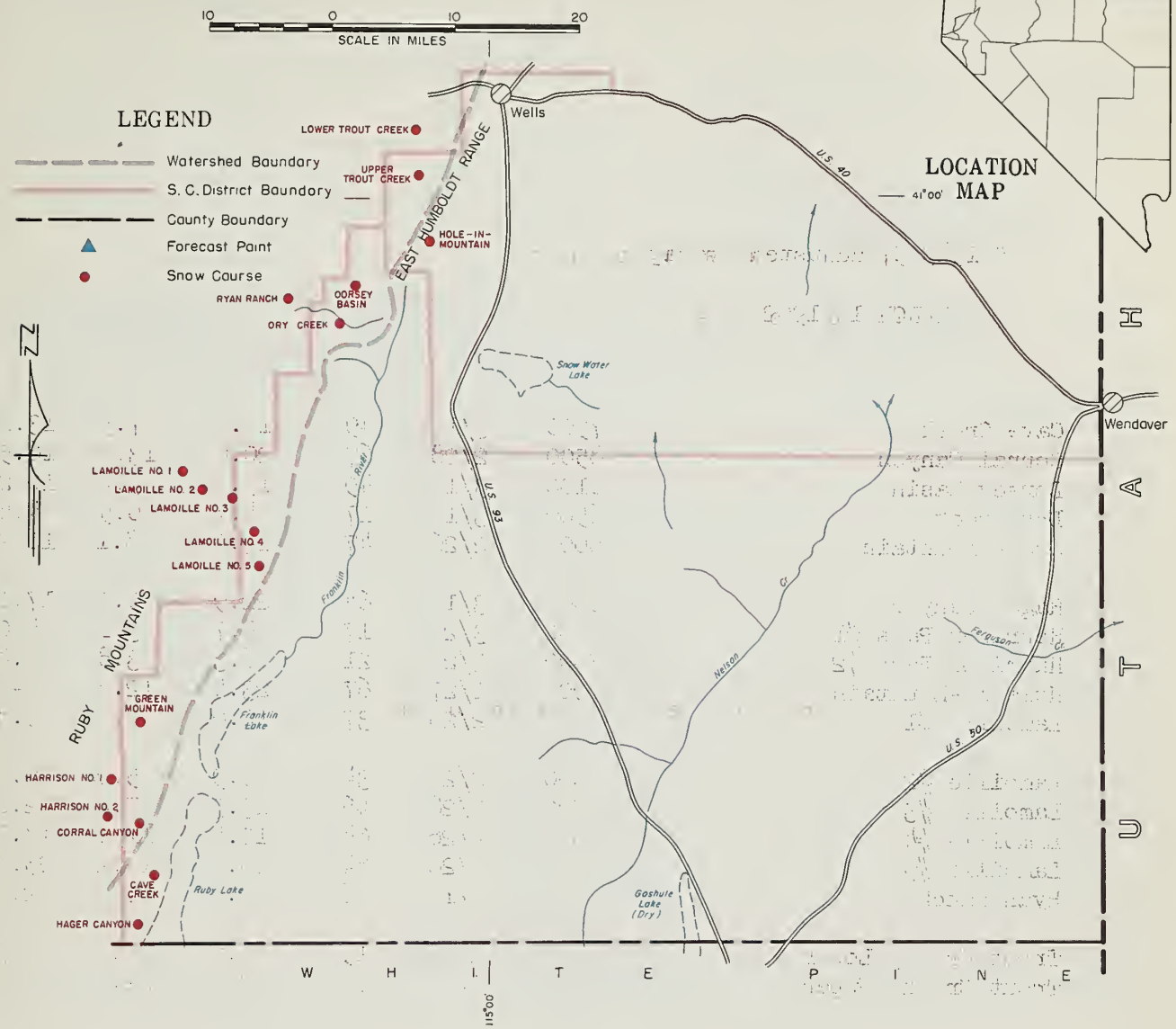
(Continued from front)

Hager Canyon and Cave Creek snow courses located above Ruby Lake National Wildlife Refuge are 138 percent of the March 1 average. These courses already exceed their April 1 averages. A normal water supply in the Refuge area is anticipated.

Good fall precipitation occurred in this area and mountain soils are rated damp to wet.

SNOW SURVEY & WATER SUPPLY FORECAST

CLOVER & RUBY S.C.D's., ELKO COUNTY, NEVADA



MARCH 1, 1962

Water users in Clover and Ruby Valley SCD's can expect a normal irrigation season water supply in 1962. Ruby Mountain snow courses on March 1 held 117 percent of their average March 1 water content. These snow courses are already 103 percent of their April 1 average.

February snow water increases in this area were in excess of 200 percent of average.

Water supply in the Ruby National Wildlife Refuge area will be normal. Continued snowfall during March will further improve this outlook.

Plate 9

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND OREG. 1958 M-1798-6

7-0-16079-6-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE

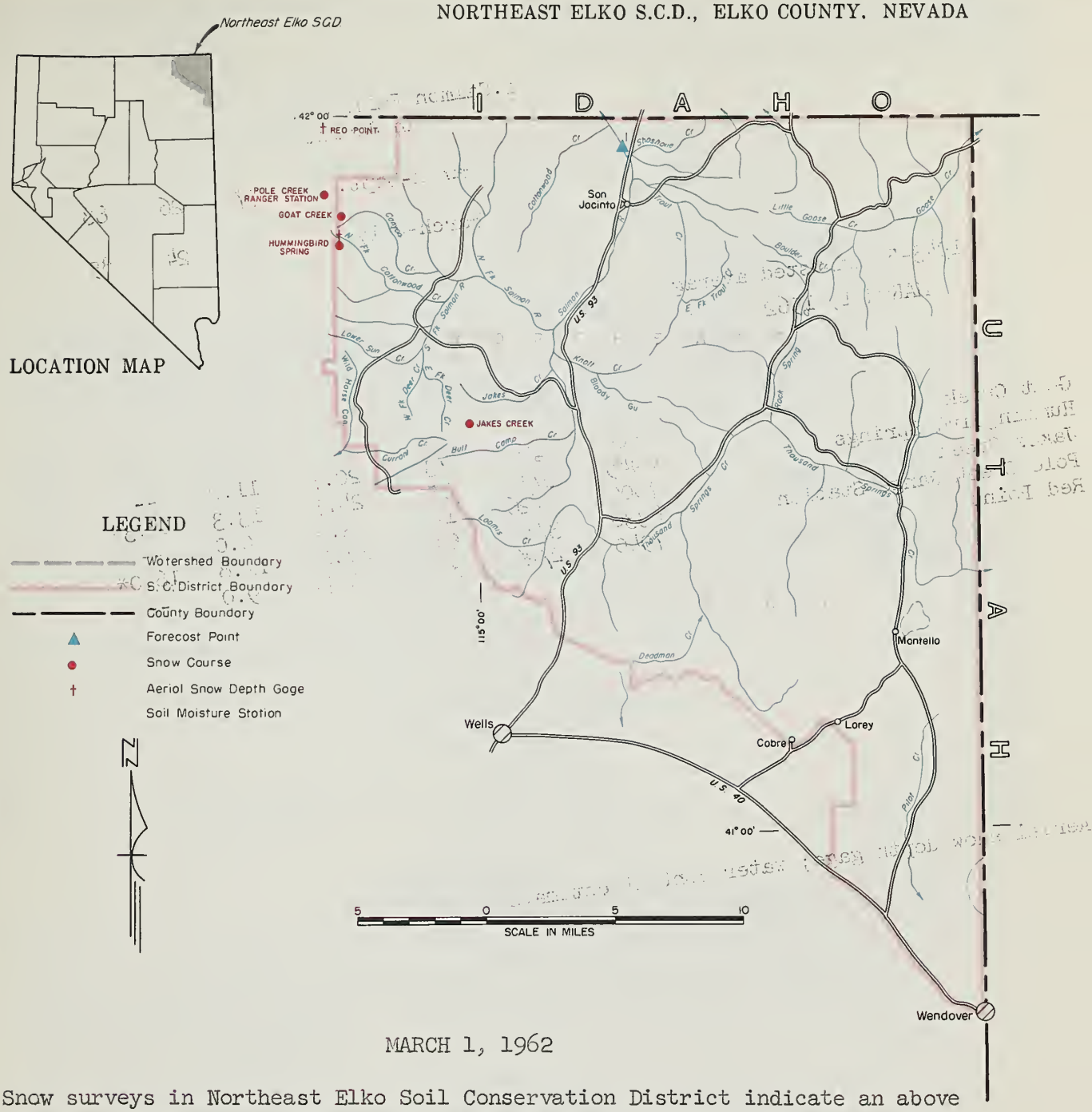
NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.
* 1943-57 adjusted average

SNOW MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD WATER CONTENT (Inches) LAST YEAR	AVERAGE
Cave Creek	7500	3/1	49	18.6	7.5	13.1*
Corral Canyon	8500	2/28	67	20.6	13.8	16.5*
Dorsey Basin	8100	3/1	49	15.5	9.4	10.2
Dry Creek	6500	3/1	17	4.7	0.5	4.8*
Green Mountain	8000	2/26	47	13.0	8.1	11.2*
Hager Canyon	8000	3/1	64	22.9	9.5	17.1*
Herrison Pass #1	6600	3/2	17	4.7	3.1	4.0
Harrison Pass #2	7400	3/2	21	6.3	3.8	4.4*
Hole-in-Mountain	7900	2/27	67	23.4	12.8	--
Lamoille #1	7100	2/28	37	10.0	7.7	9.8
Lamoille #2	7300	2/28	34	9.9	5.9	9.4
Lamoille #3	7700	2/28	46	13.3	7.0	12.2
Lamoille #4	8000	2/28	64	19.4	11.1	17.7*
Lamoille #5	8700	2/28	84	28.0	16.2	25.2*
Ryan Ranch	5800	3/1	6	1.4	T	2.0
Trout Creek, Lower	6900	2/27	19	4.6	2.0	4.5*
Trout Creek, Upper	8500	3/2	71	20.9	12.0	19.0*

SNOW SURVEY & WATER SUPPLY FORECAST

NORTHEAST ELKO S.C.D., ELKO COUNTY, NEVADA



MARCH 1, 1962

Snow surveys in Northeast Elko Soil Conservation District indicate an above normal March 1 mountain snowpack. Early February runoff on the Little Salmon caused minor flooding and replenished streambank storage. Soil moisture conditions are rated fair in the high elevations under the snow and good at lower elevations.

Salmon Falls Creek near San Jacinto is expected to flow 88 percent of average during March-July.

Range conditions should be good if normal climatic conditions continue to prevail.

Plate 10

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE M-1798-7

7-0-16079-7-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE
1. Salmon Falls Cr. near San Jacinto			
March-Sept.	77	26	88
March-July	75	24	85

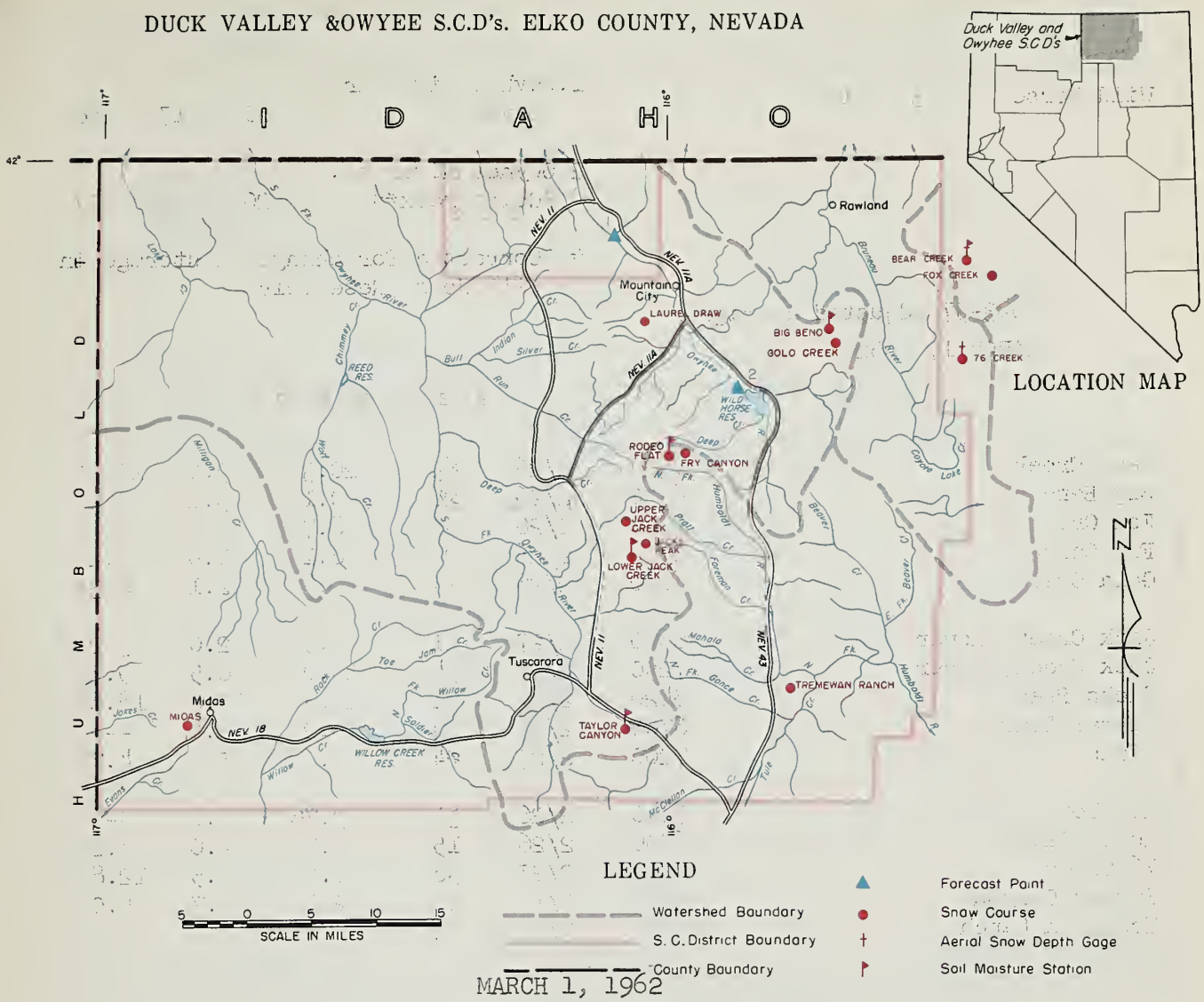
SNOW — MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE
Goat Creek	8800	3/1	73	20.7	11.0	--
Hummingbird Springs	8945	3/1	91	24.7	13.3	18.3*
Jakes Creek	7000	2/26	12	3.8	0.0	--
Pole Creek Range Station	8330	3/1	64	18.6	11.8	16.0*
Red Point	7940	2/26	36	9.7[a]	9.0	--

a Aerial snow depth gage; water content estimated.

SNOW SURVEY & WATER SUPPLY FORECAST

DUCK VALLEY &OWYEE S.C.D's. ELKO COUNTY, NEVADA



MARCH 1, 1962

Water content of the mountain snowpack in the Owyhee watershed increased in a normal fashion during February. Some snowmelt occurred during early February at elevations below 6700 feet. As a result, snow courses below this elevation are somewhat below their March 1 averages. The higher snow courses are above average.

The snowmelt runoff increased Wild Horse Reservoir storage from 9,000 acre feet on February 1 to 18,000 acre feet on March 1. Soils are well wetted and will require very little snowmelt water to become fully primed.

The loss of snow stored water at median elevations in the Owyhee watershed is reflected in the April-July forecasts on the Owyhee. Owyhee near Gold Creek is forecast to flow 20,000 acre feet during April-July or 74 percent of average. Owyhee near Owyhee is forecast to flow 60,000 acre feet or 70 percent of average during the same period.

When the February gain of 9,000 acre feet in Wild Horse Reservoir is added to Owyhee near Gold Creek forecast of 20,000 acre feet it is apparent that if snowmelt had not occurred in February, forecast flow would have been in the 100 percent of average range. Since Wild Horse collected this unusual midwinter flow the available supply for irrigation this summer will be adequate to meet normal requirements.

(Over)

Plate 11

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE M-1798-5

7-0-16079-5-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE
Wild Horse	33	18	14	13

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE
1. Owyhee River nr. Owyhee**	60	17	86
2. Owyhee River nr. Gold Creek**	20	2	27

** Corrected for change in storage in Wild Horse Reservoir

SNOW — MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE
Bear Creek	7800	2/26	69	20.3	9.4	17.1*
Big Bend	6700	2/26	28	9.1	5.2	8.9
Fox Creek	6800	2/26	32	8.7	4.5	8.4*
Fry Canyon	6700	2/26	20	6.1	4.9	8.2
Gold Creek	6600	2/26	14	4.8	2.1	6.3*
Jack Creek, Lower	6800	2/27	11	2.5	2.0	3.2
Jack Creek, Upper	7250	2/27	34	10.0	6.5	9.7*
Jacks Peak	8420	2/27	81	25.5	17.6	18.8*
Laurel Draw	6700	2/27	23	6.2	6.4	--
Midas	7200	2/23	24	7.8	T	4.7*
Red Point	7940	2/26	36	9.7a	9.0	--
Rodeo Flat	6800	2/26	15	4.8	4.0	8.2
76 Creek	7100	2/27	38	10.4a	6.5	12.8*
Taylor Canyon	6200	3/1	10	2.6	0.7	5.0
Tremewan Ranch	5700	3/1	T	T	T	1.9

AVAILABLE SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches) DEPTH	AVAILABLE CAPACITY	SOIL MOISTURE (Inches) DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
Bear Creek	7800	72	8.4	2/26	2.7	3.0	4.4
Big Bend	6700	48	9.6	1/29	6.7	7.4	--
Jack Creek, Lower	6800	48	4.9	2/27	4.7	4.4	4.1
Rodeo Flat	6800	42	6.0	2/26	6.0	6.0	6.0
Taylor Canyon	6200	48	9.7	3/1	9.0	6.6	6.5

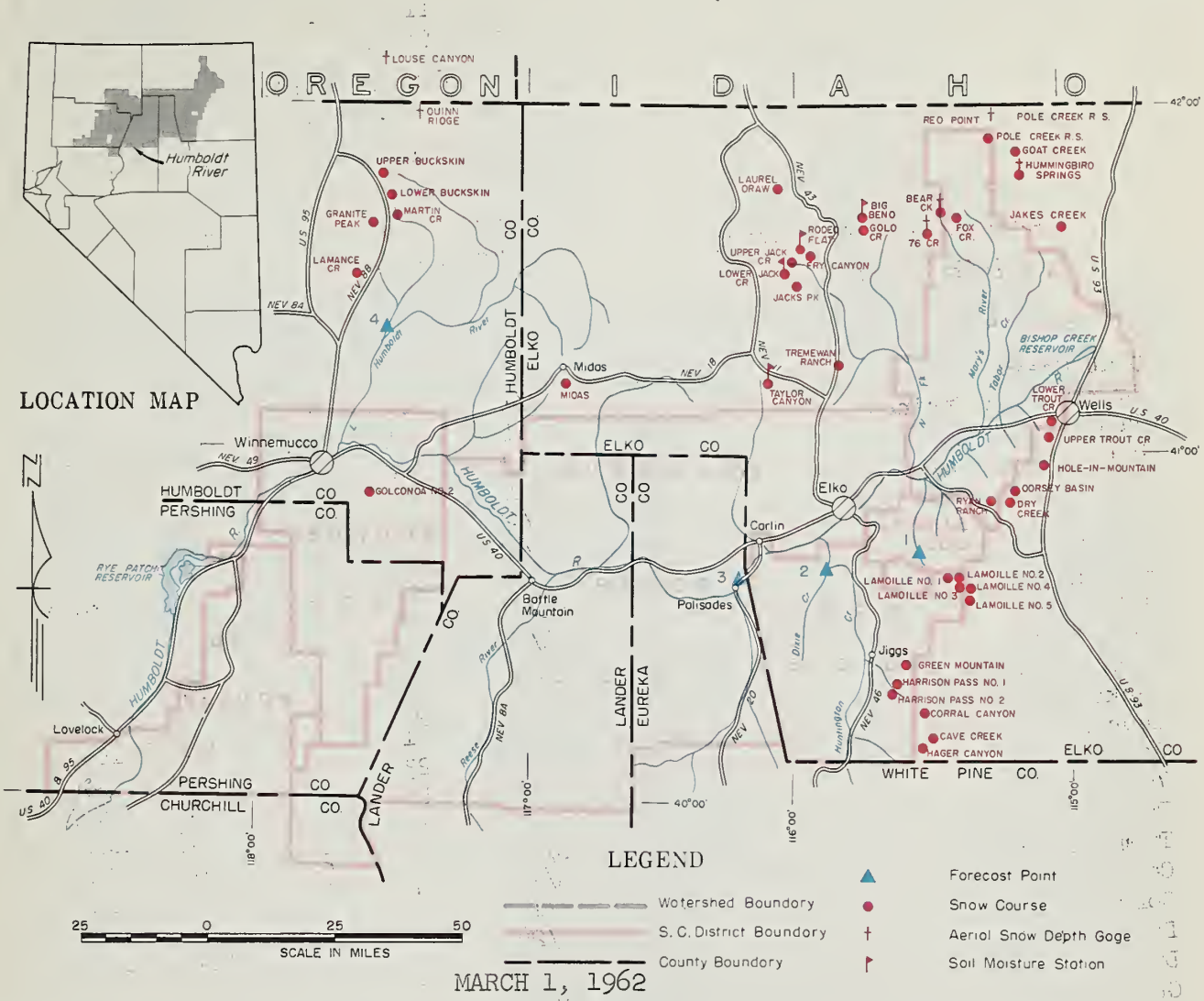
a Aerial snow depth gage; water content estimated.

(Continued from front)

Wild Horse Reservoir should fill depending on the pattern of the spring snowmelt runoff and irrigation drawdown demand.

SNOW SURVEY & WATER SUPPLY FORECAST

HUMBOLDT RIVER
CHURCHILL, ELKO, EUREKA, HUMBOLDT, LANDER & PERSHING COUNTIES, NEVADA



MARCH 1, 1962

Water users along the Humboldt River and its tributaries can look forward to an irrigation season much improved over the last three years. February streamflow has restored to a large extent the soil moisture condition of many acres of river meadowlands. March 1 1962 mountain snowpack in the Humboldt River headwaters is 110 percent of the March 1 average and 98 percent of the April 1 average.

The Humboldt at Palisade is forecast to flow 170,000 acre feet during April-July which is 75 percent of average. South Fork Humboldt near Elko is forecast to flow 70,000 acre feet (95% average) during April-July. Lamoille Creek near Lamoille is forecast at 26,000 acre feet for April-July or 93 percent of average.

Rye Patch Reservoir held 15,000 acre feet (11% of average) on March 1 and is improving as evidenced by the 20,000 acre feet in storage on March 5. A preliminary allotment of 1 1/2 feet has been set by the Pershing County Water Conservation District. Dependent on March inflow into Rye Patch mountain snowpack conditions on April 1 and the April-July streamflow forecast based on April 1 data this allotment will be re-evaluated.

Plate 12

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND, OREG. 1958 M-1798-2

7-0-16079-2-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE
Rye Patch	179	15	9	103

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE
1. Lamoille Creek near Lamoille	26	17	28
2. So. Fork Humboldt River near Elko	70	39	74
3. Humboldt River at Palisade	170	51	225
4. Martin Creek near Paradise Valley	20	6	17

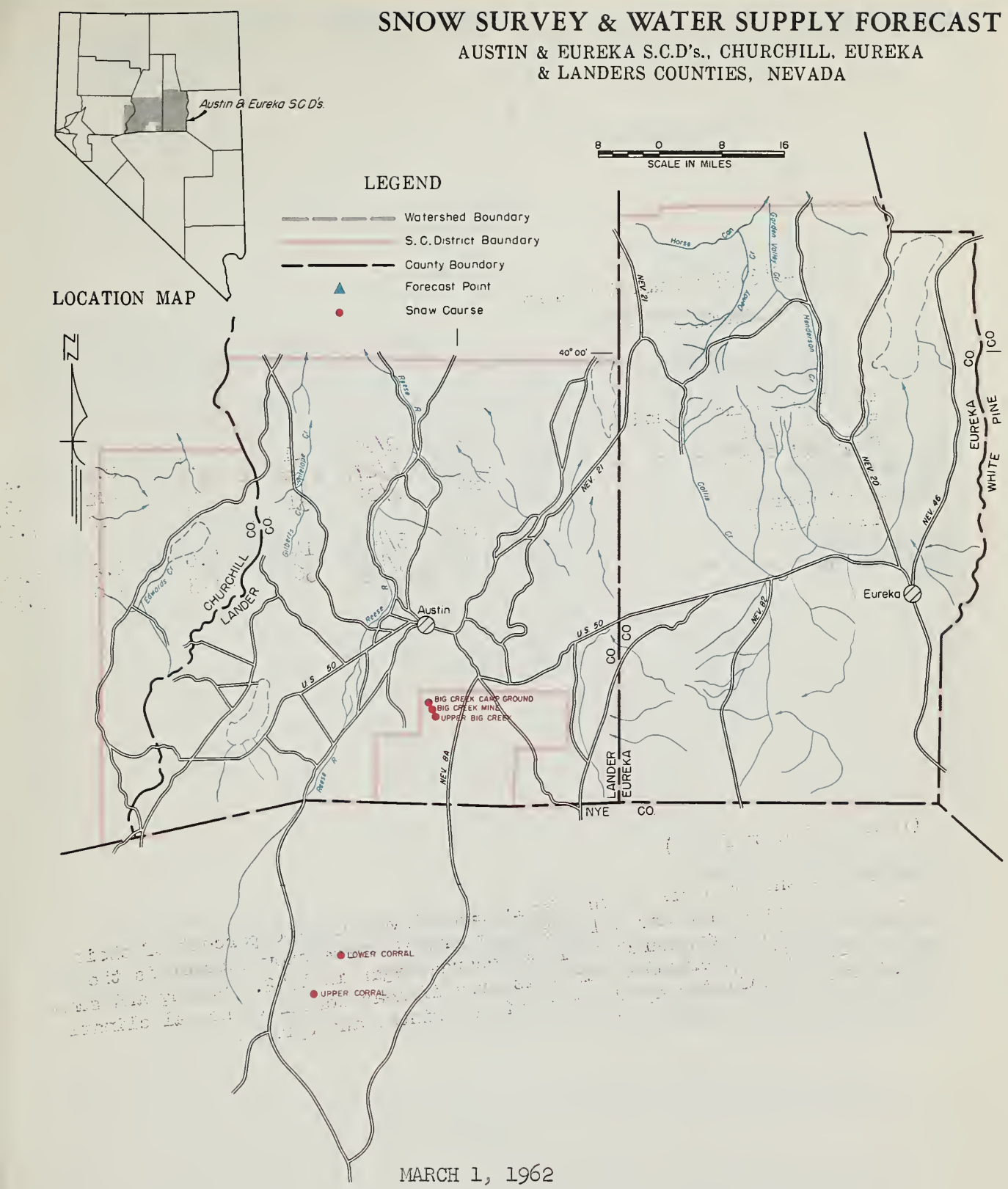
SNOW MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD WATER CONTENT (Inches) LAST YEAR	AVERAGE
Goat Creek	8800	3/1	73	20.7	11.0	--
Hummingbird Springs	8945	3/1	91	24.7	13.3	18.3*
Jakes Creek	7000	2/26	12	3.8	0.0	--
Pole Creek Ranger Station	8330	3/1	64	18.6	11.8	16.0*
Bear Creek	7800	2/26	69	20.3	9.4	17.1*
Big Bend	6700	2/26	28	9.1	5.2	8.9
Fox Creek	6800	2/26	32	8.7	4.5	8.4*
Fry Canyon	6700	2/26	20	6.1	4.9	8.2
Gold Creek	6600	2/26	14	4.8	2.1	6.3*
Jack Creek, Lower	6800	2/27	11	2.5	2.0	3.2
Jack Creek, Upper	7250	2/27	34	10.0	6.5	9.7*
Jacks Peak	8420	2/27	81	25.5	17.6	18.8*
Laurel Draw	6700	2/27	23	6.2	6.4	--
Rodeo Flat	6800	2/26	15	4.8	4.0	8.2
76 Creek	7100	2/27	38	10.4a	6.5	12.8*
Taylor Canyon	6200	3/1	10	2.6	0.7	5.0
Tremewan Ranch	5700	3/1	T	T	T	1.9
Cave Creek	7500	3/1	49	18.6	7.5	13.1*
Corral Canyon	8500	2/28	67	20.6	13.8	16.5*
Dorsey Basin	8100	3/1	49	15.5	9.4	10.2
Dry Creek	6500	3/1	17	4.7	0.5	4.8*
Green Mountain	8000	2/26	47	13.0	8.1	11.2*
Hager Canyon	8000	3/1	64	22.9	9.5	17.1*
Harrison Pass #1	6600	3/2	17	4.7	3.1	4.0
Harrison Pass #2	7400	3/2	21	6.3	3.8	4.4*
Hole-in-Mountain	7900	2/27	67	23.4	12.8	--
Lamoille #1	7100	2/28	37	10.0	7.7	9.8
Lamoille #2	7300	2/28	34	9.9	5.9	9.4
Lamoille #3	7700	2/28	46	13.3	7.0	12.2
Lamoille #4	8000	2/28	64	19.4	11.1	17.7*
Lamoille #5	8700	2/28	84	28.0	16.2	25.2*
Ryan Ranch	5800	3/1	6	1.4	T	2.0
Trout Creek, Lower	6900	2/27	19	4.6	2.0	4.5*
Trout Creek, Upper	8500	3/2	71	20.9	12.0	19.0*
Midas	7200	2/23	24	7.8	T	4.7*
Golconda #2	6000	2/23	18	5.5	T	--
Buckskin, Lower	6700	2/27	30	9.6	6.1	8.4*
Buckskin, Upper	7200	2/27	27	9.4	6.8	7.9*
Granite Peak	7800	3/5	59	16.5	5.6	10.6
Lamance Creek	6000	3/7	46	13.6	5.1	8.5*
Martin Creek	6700	2/28	39	12.5	6.2	8.2

a Aerial snow depth gage; water content estimated.

SNOW SURVEY & WATER SUPPLY FORECAST

AUSTIN & EUREKA S.C.D's., CHURCHILL, EUREKA & LANDERS COUNTIES, NEVADA



MARCH 1, 1962

The mountain snowpack in the Austin-Eureka area is about normal as of March 1. Good runoff can be expected in this area this spring and summer.

The Big Creek snow courses south of Austin have a March 1 snowpack which is 145 percent of average. Irrigation season runoff from this area will be very good if normal climatic conditions prevail during March and during the spring months.

(Over)

Plate 13

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND, OREG. 1958 M-1798-12

7-0-16079-12-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

SNOW — MARCH 1, 1962

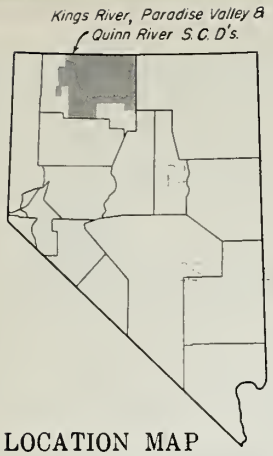
SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE
Big Creek Camp Ground	6600	2/27	11	1.7	0.9	2.1
Big Creek Mine	7600	2/27	26	7.7	2.2	3.5*
Upper Big Creek	7800	2/27	31	8.5	4.0	7.0*
Lower Corral	7500	3/4	14	4.0	2.2	1.8*
Upper Corral	8500	3/4	36	11.3	4.0	5.5*

(Continued from front)

The Corral snow courses in the Upper Reese River are 200 percent of their March 1 average. The March 1 water content at these snow courses is the highest on record for March 1 since records began in 1942. Spring and summer streamflow will be excellent in this area if near normal to normal climatic conditions prevail during the rest of the winter and spring.

SNOW SURVEY & WATER SUPPLY FORECAST

KINGS RIVER, PARADISE VALLEY & QUINN RIVER S.C.D's., HUMBOLDT COUNTY, NEVADA



LOCATION MAP

MARCH 1, 1962

Paradise Valley water users can expect a normal water supply this coming April-July. Martin Creek near Paradise is forecast to flow 20,000 acre feet or 118 percent of the April-July average.

March 1, 1962 snowpack in the Santa Rosa Mountains is 140 percent of the March 1 average. Disaster Peak snow course west of McDermitt held 23.3 inches of snow water on March 1 which is over 150 percent of average.

Soils at lower elevations are well wetted. Mountain soil moisture under the snowpack is rated fair to good.

Other streams in Kings River, Paradise Valley and Quinn River SCD's should have good irrigation season flows.

Plate 14

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND OREG 1958 M-1798-3

7-0-16079-3-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE
Rye Patch	179	15	9	103

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE
1.Martin Creek nr. Paradise Valley	20	6	17
2.Humboldt River at Palisade	170	51	225

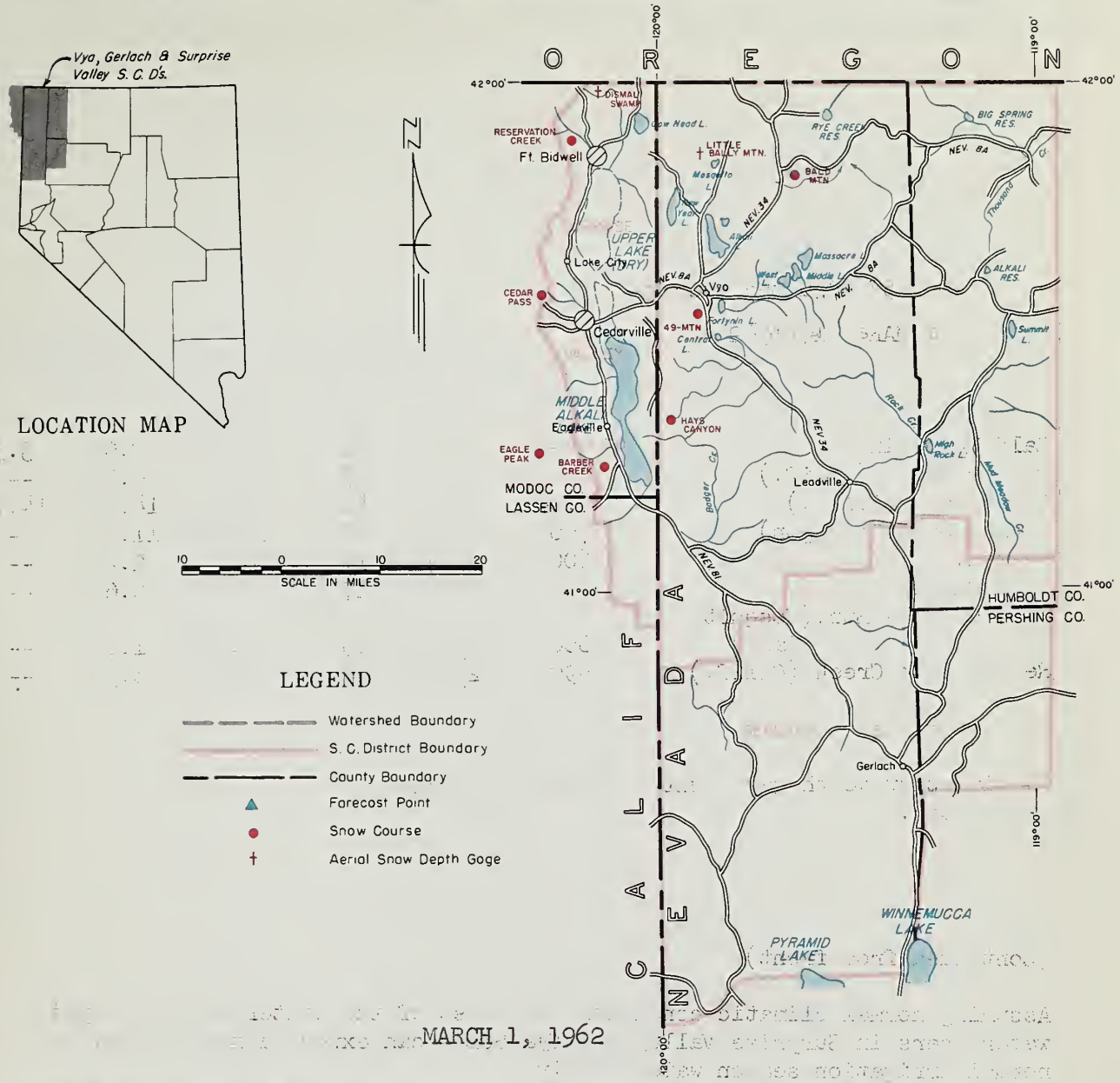
SNOW MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD WATER CONTENT (Inches) LAST YEAR	AVERAGE
Buckskin, Lower	6700	2/27	30	9.0	6.1	8.4*
Buckskin, Upper	7200	2/27	27	9.4	6.8	7.9*
Disaster Peak	6500	3/4	50	23.3	9.3	14.5*
Denio Creek (Oregon)	6000	2/22	2	0.6[a]	0.0	--
Granite Peak	7800	3/5	59	16.5	5.7	10.6
Lamance Creek	6000	3/7	46	13.6	5.1	8.5*
Louse Canyon (Oregon)	6440	2/26	18	5.8[a]	0.7	--
Martin Creek	6700	2/28	39	12.5	6.2	8.2
Oregon Canyon (Oregon)	7240	2/26	22	7.0[a]	4.6	--
Quinn Ridge	6300	2/26	6	1.9[a]	0.3	--
Trout Creek (Oregon)	7800	2/26	28	9.0[a]	5.3	--

a Aerial snow depth gage, water content estimated.

SNOW SURVEY & WATER SUPPLY FORECAST

VYA & GERLACH S.C.D'S., NEVADA and SURPRISE VALLEY S.C.D., CALIFORNIA



MARCH 1, 1962

In general mountain snowpack in Surprise Valley and Vya SCD's is better than the past three years, but not quite as good as 1958. Bald Mountain snow course in the Sheldon Antelope Refuge is 180 percent of average. Its March 1 water content of 6.0 inches is the third highest in 23 years of record exceeded only by 1952 (9.0 inches) and 1960 (6.5 inches). Cedar Pass with 13.4 inches of water on March 1 is 91 percent of average.

September 1 through February 28 precipitation data ranged from 80 percent of average at Cedarville to 102 percent of average at Sheldon. Precipitation amounts and averages are as follows:

Station	Precipitation inches Sept. 1-Feb. 28 Observed 1961-62	Average
Sheldon	6.39	6.24
Ft. Bidwell	10.69	10.82
Cedarville	6.18	7.82
Vya	6.19	5.79

(Over)

Plate 15

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE USDA SCS PORTLAND OREG 1961 M-1798-4

7-0-16079-4-L

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month) THIS YEAR	LAST YEAR	AVERAGE

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED LAST YEAR	AVERAGE

NOTE:
All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.
*1943-57 adjusted average

SNOW MARCH 1, 1962

SNOW COURSE NAME	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE
Bald Mountain	6720	2/28	21	6.0	2.0	3.3
Barber Creek (Calif.)	6500	2/27	43	11.9	6.7	--
Cedar Pass (Calif.)	7100	2/27	49	13.4	14.0e	14.7*
Dismal Swamp (Oregon)	7000	2/22	60	18.0**	11.8	--
49-Mtn.	6000	2/27	17	4.1	2.2	--
Hays Canyon	6400	2/27	17	4.5	0.6	--
Little Bally Mtn.(Mosquito Lake)	6000	2/22	15	4.5**	1.6	--
Reservation Creek (Calif.)	5900	2/26	42	11.4	6.9	--

**Aerial snow depth gage, water content estimated.
e Estimated.

(Continued from front)

Assuming normal climatic conditions the rest of the winter and this spring water users in Surprise Valley and Vya SCD's can expect a near normal to normal irrigation season water supply.

Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL
- Soil Conservation Service
- Forest Service
- Geological Survey
- Bureau of Reclamation
- Fish and Wildlife Service
- Army
- Navy
- Weather Bureau
- Agricultural Research Service

STATE
- Nevada Department of Conservation & Natural Resources
  - Division of Water Resources
  - Nevada State Forester-Firewarden
- Nevada Cooperative Snow Surveys
- Colorado River Commission of Nevada
- California Cooperative Snow Surveys
- California Department of Water Resources
- Oregon Cooperative Snow Surveys
- Nevada Association of Soil Conservation Districts
- University of Nevada

PRIVATE
- Walker River Irrigation District
- Amalgamated Sugar Company
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Virginia City Water Company
- Kennecott Copper Corporation
- Squaw Valley Development Company
- Pacific Gas & Electric Company
- Nevada Irrigation District
- Sierra Pacific Power Company
- Washoe County Water Conservation District
- Truckee-Carson Irrigation District
- Pershing County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

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COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"